CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, October 11, 1906.

CONTENTS

CONSTRUCTION NEWS:
Plans and Specifications on File 123
List of Contracts Pending 123
Railways 124
Electric Railways 124
Light and Power Plants 125
Bridges 125
Buildings 126
Water Supply and Irrigation 127
Sewerage 127
Streets and Roads 128
Manufacturing Plants 128
Miscellaneous Contracts 129
U. S. Possessions and Cuba 129
Foreign Contracts 129
CIVIL SERVICE EXAMINATIONS 129
INDUSTRIAL NOTES 130
PROPOSALS 130

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Oct.				
*12	Hospital	New York, N. Y.	P. & S.	9-27
*15	Steel wharf sheds, railways	Manila, P. I.	P. & S.	7-19
*16	Dam, etc.	Lascruces, N. Mex.	P. & S.	9- 6
Nov.				
*1	Dam, etc.	Mitchell, Neb.	P., S. & B. S.	10- 4
3	Pumping mchny.	Norfolk, Va.	S.	10-11
*15	Dam, excavation	N. Yakima, Wash.	P., S. & B. S.	9-27
*15	Canal, dam, tunnels	N. Yakima, Wash.	P., S. & B. S.	9-27

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Oct. 11. Equipment, Washington, D. C. ..... Sept. 6
Oct. 12. Steam fittings, Cleveland, Ohio ..... Oct. 11
Oct. 13. Power-house, Charleston, S. C. ..... Oct. 11
Oct. 13. Lighting, Milwaukee, Wis. ..... Oct. 11
Oct. 15. Equipment, Lowellville, Ohio ..... Oct. 11
Oct. 16. Apparatus and equipment, Rushville, Ind. Oct. 4
Oct. 17. Power-house, Annapolis, Md. ..... Oct. 11
Oct. 20. Light plant, Napoleonville, La. ..... Oct. 11
Oct. 20. Gas holder, Egg Harbor City, N. J. ..... Oct. 4
Advertised, Eng. News, Oct. 4 to 18.
Oct. 29. Equipment, Orange, N. J. ..... Oct. 4
Advertised, Eng. News, Oct. 11 and 18.
Nov. 1. Lighting, Canastota, N. Y. ..... Oct. 11

BRIDGES.

Oct. 11. Bridges, etc., Delphi, Ind. ..... Sept. 27
Oct. 12. Bridges, Coshocton, Ohio ..... Sept. 27
Oct. 12. Timbers, Cleveland, Ohio ..... Oct. 11
Oct. 15. Bridges, Columbia, S. C. ..... Oct. 11
Oct. 15. Revolving bridge, etc., Salem, Mass. ..... Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.
Oct. 15. Bridge, Woonsocket, R. I. ..... Oct. 4
Advertised, Eng. News, Oct. 4 and 11.
Oct. 15. Substructure, Bryan, Ohio ..... Oct. 4
Oct. 16. Bridge piers, etc., Winnipeg, Man. ..... Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.
Oct. 16. Superstructure, Toronto, Ont. ..... Oct. 11
Oct. 18. Bridge, New York, N. Y. ..... Oct. 11
Oct. 19. Bridge, Reading, Pa. ..... Oct. 11
Advertised, Eng. News, Oct. 11.
Oct. 20. Bridge, Eaton, Ohio ..... Oct. 11
Oct. 20. Steel superstructure, Winnipeg, Man. ..... Sept. 27
Advertised, Eng. News, Sept. 27 to Oct. 18.
Oct. 22. Bridges, Martins Ferry, Ohio ..... Oct. 4
Oct. 22. Bridges, St. Clairsville, Ohio ..... Oct. 11
Oct. 22. Bridge, Hopewell Cape, N. B. ..... Oct. 11
Oct. 25. Bridge, Atlanta, Ga. ..... Sept. 13
Oct. 26. Bridges, Wauseon, Ohio ..... Oct. 11
Oct. 29. Bridges, Toledo, Ohio ..... Oct. 11
Nov. 6. Bridge, Peoria, Ill. ..... Oct. 11
Advertised, Eng. News, Oct. 11 and 18.
Nov. 8. Bridges, Atlanta, Ga. ..... Oct. 4
Nov. 20. Bridge, Winnipeg, Man. ..... Oct. 4
Advertised, Eng. News, Oct. 4 to 25.

BUILDINGS.

Oct. 12. Hospital, New York, N. Y. ..... Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.
Oct. 13. Schools, Toronto, Ont. ..... Oct. 11
Oct. 13. Depot, Rayne, La. ..... Oct. 11
Oct. 15. Church, Seebert, W. Va. ..... Oct. 11
Oct. 15. Lighting, Canton, Ohio ..... Oct. 11
Oct. 15. School buildings, Port Huron, Mich. ..... Oct. 4
Oct. 15. Court-house, Nelson, B. C. ..... Oct. 4
Oct. 15. Mail lift, Kansas City, Mo. ..... Oct. 4
Advertised, Eng. News, Oct. 4 and 11.
Oct. 15. Y. M. C. A. building, Savannah, Ga. ..... Oct. 4
Oct. 15. Experimental station, Annapolis, Md. ..... Oct. 4
Oct. 16. Employees' quarters, Grand Junct'n, Colo. Sept. 20
Oct. 16. Plumbing, Charleston, S. C. ..... Sept. 27
Oct. 17. Elevator, Fargo, N. Dak. ..... Oct. 4
Oct. 17. Plumbing, Indianapolis, Ind. ..... Oct. 11
Oct. 18. Dormitory, Athens, Ohio ..... Oct. 11
Oct. 19. Engine-house, New York, N. Y. ..... Oct. 11
Oct. 19. Quarters, Youngstown, N. Y. ..... Sept. 27
Oct. 22. Guard-house, Washington, D. C. ..... Sept. 27
Advertised, Eng. News, Sept. 27 to Oct. 18.
Oct. 22. Guard-house, Washington, D. C. ..... Oct. 4
Oct. 22. School, New York, N. Y. ..... Oct. 11
Oct. 22. Wiring, Sherman, Tex. ..... Oct. 4
Advertised, Eng. News, Oct. 4 and 11.
Oct. 23. Mess hall, Washington, D. C. ..... Sept. 13
Advertised, Eng. News, Sept. 13 to Oct. 18.
Oct. 24. Hospital, Utica, N. Y. ..... Oct. 4
Advertised, Eng. News, Oct. 4 to 18.
Oct. 24. Wiring, Utica, N. Y. ..... Oct. 11
Oct. 30. Elevator, New York, N. Y. ..... Oct. 11
Advertised, Eng. News, Oct. 11 and 18.
Oct. 31. School, Cheyenne Agency, S. Dak. ..... Oct. 11
Oct. 31. Academy, Waterloo, Que. ..... Oct. 11
Nov. 1. Officers' quarters, Fort Dupont, Del. ..... Oct. 4
Advertised, Eng. News, Oct. 4 to 18.
Nov. 8. Court-house, Bloomington, Ind. ..... Oct. 11
Nov. 8. Quarantine buildings, Portland, Me. ..... Oct. 11
Advertised, Eng. News, Oct. 11 and 18.
Nov. 9. Hardware, Indianapolis, Ind. ..... Oct. 11
Dec. 20. Plans and specifications, Shreveport, La. ..... Oct. 4

WATER SUPPLY AND IRRIGATION.

Oct. 11. Water-works, Holland Patent, N. Y. ..... Sept. 27
Oct. 13. Water-works extension, Caldwell, Idaho ..... Sept. 27
Oct. 14. Pumping engine, Henderson, Ky. ..... Sept. 20
Oct. 15. Well, pump, El Paso, Tex. ..... Sept. 27
Oct. 15. Steel tank, Fortress Monroe, Va. ..... Sept. 27
Advertised, Eng. News, Sept. 27 to Oct. 11.
Oct. 15. Engines, etc., Albany, N. Y. ..... Oct. 11
Oct. 16. Laying pipe, Summit, N. J. ..... Oct. 11
Advertised, Eng. News, Oct. 11.
Oct. 18. Pumping station, Danville, Ind. ..... Oct. 11
Oct. 23. Water, Port Royal, S. C. ..... Oct. 11
Oct. 27. Water gate, Washington, D. C. ..... Oct. 11
Oct. 31. Pipe, Lancaster, Ohio ..... Oct. 11
Oct. 31. Water-works, Whiterocks, Utah ..... Oct. 4

SEWERAGE.

Oct. 12. Sewers, Lancaster, Ohio ..... Oct. 4
Oct. 15. Sewers, Charleston, Ill. ..... Oct. 4
Oct. 15. Sewer, Fort Dodge, Iowa ..... Oct. 4
Oct. 15. Sewer, Yankton, S. Dak. ..... Oct. 4
Oct. 15. Sewers, Albany, N. Y. ..... Oct. 11
Oct. 16. Sewers, Niagara Falls, N. Y. ..... Oct. 11
Oct. 16. Sewers, New York, N. Y. ..... Oct. 11
Oct. 17. Sewers, Rochelle, Ill. ..... Oct. 11
Oct. 17. Sewers, Amsterdam, N. Y. ..... Oct. 11
Oct. 17. Pipe, Perth Amboy, N. J. ..... Oct. 11
Oct. 18. Pumping station, Danville, N. J. ..... Oct. 11
Oct. 18. Sewers, New York, N. Y. ..... Oct. 11
Oct. 18. Sewers, Washington, D. C. ..... Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.
Nov. 19. Sewer and outfall, Los Angeles, Cal. ..... Oct. 11
Advertised, Eng. News, Oct. 11 and 18.
Oct. 22. Sewers and pumping station, Plainfield, N. J. ..... Oct. 11
Advertised, Eng. News, Oct. 11.
Nov. 6. Sewers, Dawson, Ga. ..... Oct. 11
Nov. 7. Filters, Philadelphia, Pa. ..... Oct. 11
Advertised, Eng. News, Oct. 11, 18 and Nov. 1.
Nov. 8. Pump, Yonkers, N. Y. ..... Oct. 11
Advertised, Eng. News, Oct. 11.
No date. Sewer, Lorain Ohio ..... Oct. 4
No date. Sewers, Amsterdam, N. Y. ..... Oct. 4

STREETS AND ROADS.

Oct. 11. Paving, Buffalo, N. Y. ..... Oct. 11
Oct. 12. Roads, Cincinnati, Ohio ..... Sept. 27
Oct. 13. Gravel roads, Terre Haute, Ind. ..... Sept. 27
Oct. 13. Paving, East St. Louis, Ill. ..... Oct. 11
Oct. 14. Macadam, Evanston, Ill. ..... Oct. 11
Oct. 15. Repairing asphalt, Youngstown, Ohio ..... Oct. 11
Oct. 15. Paving, Montgomery, Ala. ..... Oct. 11
Oct. 15. Paving, New York, N. Y. ..... Oct. 11
Oct. 15. Paving, Portchester, N. Y. ..... Oct. 11
Oct. 15. Grading, Fort Mott, N. J. ..... Sept. 27
Oct. 16. Paving, etc., New York, N. Y. ..... Oct. 11
Oct. 16. Paving, Greenland, N. H. ..... Oct. 11
Oct. 16. Paving, Tipton, Ind. ..... Oct. 11
Oct. 17. Paving, etc., Wellsville, N. Y. ..... Oct. 4
Advertised, Eng. News, Oct. 4 and 11.
Oct. 17. Grading, New York, N. Y. ..... Oct. 4
Oct. 18. Paving, Portchester, N. Y. ..... Oct. 11
Oct. 19. Sidewalks, Washington, D. C. ..... Oct. 4
Oct. 20. Macadam road, Greencastle, Ind. ..... Sept. 27
Oct. 20. Grading, Terre Haute, Ind. ..... Oct. 11
Oct. 31. Road work, Albany, N. Y. ..... Oct. 11
Advertised, Eng. News, Oct. 11 to 25.
Oct. 31. Roadway, Grand Rapids, Mich. ..... Sept. 27
Oct. 31. Road, Byron, Mich. ..... Oct. 4
Nov. 1. Macadam, Highlands, N. J. ..... Oct. 4
Advertised, Eng. News, Oct. 4 to 25.
No date. Grading, Macon, Ga. ..... Oct. 4
Advertised, Eng. News, Oct. 4.

MISCELLANEOUS CONTRACTS.

Oct. 11. Dredging, New York, N. Y. ..... Sept. 13
Advertised, Eng. News, Sept. 13 to Oct. 4.
Oct. 11. Seawalls, Boston, Mass. ..... Oct. 4
Advertised, Eng. News, Oct. 4.
Oct. 12. Shells, etc., Washington, D. C. ..... Oct. 4
Oct. 12. Wharf, dredging, etc., Ft. Hunt, Va. ..... Sept. 20
Oct. 13. Boilers, heaters, etc., Norfolk, Va. ..... Oct. 4
Oct. 15. Drains, Rio Grande do Sul, Brazil (Forn). May 31
Oct. 15. Steel sheds, Rys., Manila, P. I. ..... July 19
Advertised, Eng. News, July 19 to Aug. 30.
Oct. 15. Ry. work, Missouri & N. Arkansas Ry. ..... Sept. 27
Advertised, Eng. News, Sept. 27.
Oct. 16. Dam, canal, excav., Lascruces, N. Mex. Sept. 6
Advertised, Eng. News, Sept. 6 to Oct. 11.
Oct. 16. Earth spreaders, etc., Panama ..... Oct. 4
Oct. 16. Naval supplies, Washington, D. C. ..... Oct. 4
Oct. 16. Wharf repairs, New York, N. Y. ..... Oct. 11
Oct. 17. Subway, Reading, Pa. ..... Oct. 11
Advertised, Eng. News, Oct. 11.
Oct. 18. Fire alarm system, Petersboro, Ont. ..... Oct. 4
Oct. 19. Cement, New York, N. Y. ..... Oct. 11
Oct. 19. Rubber fire hose, New York, N. Y. ..... Oct. 11
Oct. 20. Embankment, East St. Louis, Ill. ..... Oct. 11
Oct. 20. Breakwater, Goderich, Ont. ..... Oct. 11
Oct. 20. Crematories, Salem, N. J. ..... Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.
Oct. 22. Pier, Norfolk, Va. ..... Oct. 4
Advertised, Eng. News, Oct. 4 to 18.
Oct. 22. Dredging plant, Detroit, Mich. ..... Oct. 11
Advertised, Eng. News, Oct. 4 to 18.
Oct. 23. Naval supplies, Washington, D. C. ..... Oct. 4
Oct. 23. Tunnel entrance, Boston, Mass. ..... Oct. 11
Oct. 24. Railway work, Belgium (Foreign) ..... Oct. 11
Oct. 25. Moorings, Tompkinsville, N. Y. ..... Oct. 11
Oct. 27. Revetment wall, Owen Sound, Ont. ..... Oct. 11
Oct. 29. Conduit, embankment, Boston, Mass. ..... Oct. 11
Advertised, Eng. News, Oct. 11 and 18.
Oct. 29. Crematory, Delaware City, Del. ..... Oct. 4
Advertised, Eng. News, Oct. 4 to 18.
Oct. 30. Naval supplies, Washington, D. C. ..... Oct. 4
Nov. 1. Dam, etc., Mitchell, Neb. ..... Oct. 11
Advertised, Eng. News, Oct. 4 to 25.
Nov. 6. Subway substructure, Toronto, Ont. ..... Oct. 4
Advertised, Eng. News, Oct. 4 and 11.
Nov. 6. Railway, Spain (Foreign) ..... Aug. 30
Nov. 8. Canal work, Albany, N. Y. ..... Oct. 11
Advertised, Eng. News, Oct. 11 to Nov. 1.
Nov. 9. Canal work, Albany, N. Y. ..... Oct. 11
Advertised, Eng. News, Oct. 11 to Nov. 1.
Nov. 13. Cranes, Washington, D. C. ..... Oct. 11
Nov. 15. Canal, dam, tunnels, N. Yakima, Wash. ..... Sept. 27
Advertised, Eng. News, Sept. 27 to Nov. 1.
Nov. 15. Dam, excavation, N. Yakima, Wash. ..... Sept. 27
Advertised, Eng. News, Sept. 27 to Nov. 1.
Dec. 1. Garbage reduction, Spain (Foreign) ..... Oct. 11
Advertised Eng. News, Oct. 4 and 11.
Mar. 18. ('07). Tunnel, New Zealand (Foreign) ..... Sept. 13
Advertised, Eng. News, Sept. 13 to Mar. 14.
No date. Jetty plans, estimates, Asbury, N. J. ..... Sept. 27
Advertised, Eng. News, Sept. 27.
No date. Grading, Macon, Ga. ..... Oct. 4
Advertised, Eng. News, Oct. 4.
No date. 21 miles grading, Natchez & Eastern Ry. Oct. 11
Advertised, Eng. News, Oct. 11 and 18.

CIVIL SERVICE EXAMINATIONS.

Oct. 11. Inspector Sewer Const., New York, N. Y. Sept. 27
Oct. 17. Bridge Engr., Manila, P. I. ..... Sept. 27
Oct. 17. Prin. Asst. Ch. Engr., Manila, P. I. ..... Sept. 27
Oct 17. Asst. Engr, Manila, P. I. ..... Sept. 27
Oct. 17. Junior C. E., Manila, P I. ..... Sept. 27
Oct. 17. Master Builder, Manila, P. I. ..... Sept. 27
Oct. 17. Second Asst. Engr., Manila, P. I. ..... Sept. 27
Oct. 17. Scientific Asst., Washington, D. C. ..... Sept. 20
Oct. 17. Engineer, Oklahoma ..... Oct. 11
Oct. 24. Engr. and Carpenter, Nebraska ..... Oct. 11
Oct. 30. Topographic Draftsman, Wash., D. C. ..... Oct. 11
Oct. 30. Cartographic Draftsman, Wash., D. C. ..... Oct. 11
Oct. 30. Clerk Draftsman, Washington, D. C. ..... Oct. 11
Oct. 30. C. E. & Supt. Construction, Wash., D. C. Oct. 18
Oct. 31. Chief, Water Bureau, Philadelphia, Pa. ..... Oct. 11
Advertised, Eng. News, Oct. 11.
Nov. 7. Topographic Draftsman, Panama ..... Oct. 18

REGARDING NEW PROJECTS

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

ADDRESS THE

Construction News Department

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ASHLAND & WESTERN.—Incorporated in Ohio, with $200,000 capital, by Z. W. Davis, Isaac H. Taylor, William Simpson, W. L. Stolzenbach and H. B. Stewart, to build a steam railroad across the state from Vermillion, on the Lake Shore & Michigan Southern and the New York, Chicago & St. Louis, south through Erie, Lorain, Ashland, Wayne, Holmes, Coshocton, Muskingum, Noble, Morgan and Washington Counties, to the Ohio River at Marietta, on the Baltimore & Ohio and the Pennsylvania, about 175 miles. The office of the company is at Ashland, Ohio.

ATLANTIC & WESTERN.—Company has been chartered in Georgia to build a line 65 miles long, from Fleming, Ga., on the Atlantic Coast Line, through Homerville, Smiley and Glennville to Vidalia. Capital, $250,000. The incorporators are W. C. Long, E. C. Miller, J. R. Pryor, A. L. Kinston, J. C. Hines, John Kirkland, C. U. Hendry, R. Lloyd Henry, W. W. Frazier, A. B. Brewer, T. S. Layton, S. B. Brewton, N. J. Norman, H. S. Long and Donald Fraser, of Liberty County, and S. F. Smith, D. J. Padgett, J. S. Easterling, G. J. Sweeney, W. L. Rogers and J. J. Barrow, of Tatnall County.

CHICAGO & NORTHWESTERN.—Official announcement regarding construction of new lines is made for the year ending June 30, 1906: The Wyoming & Northwestern Ry. has been nearly completed and will be opened for traffic during the ensuing month from Casper, Wyo., to Shoshoni, a new town located near the eastern boundary line of the Shoshoni Indian Reservation in Wyoming, a distance of 102.4 miles. From Shoshoni to the proposed terminus at Lander, Wyo., a distance of 45.7 miles, the construction of the railway is well advanced and will be completed during the year 1906. The Manitowoc, Green Bay & Northwestern Ry. has been completed from Manitowoc, Wis., to the east side of the Fox River, near Green Bay, a distance of 34.74 miles. The bridge over the Fox River, near Green Bay, and the remaining sections of the railway extending from Duck Creek to Gillett, Wis., a distance of 29.88 miles, and from Pulaski to Eland Junction, Wis., a distance of 48.38 miles, are under construction and will be completed during the ensuing autumn. The Milwaukee & State Line Ry., extending from an intersection with the present third and fourth main tracks of the Milwaukee line, near Lake Bluff, Ill., to an intersection with the third and fourth main tracks of that line, near St. Francis, Wis., a distance of 50.34 miles, is nearing completion, and, it is expected, will be opened for traffic during October. This is a double-track railway and will provide the company with a continuous four-track system between the cities of Chicago and Milwaukee. The branch railways extending from near Laona on the Ashland division, in Wisconsin, to an intersection with the Peninsula division at Saunders, Mich., a distance of 29.51 miles, and from Mercer, Wis., to the Presque Isle District, a distance of 19.49 miles, have been completed and opened for traffic. The Pierre & Fort Pierre Bridge Ry. will extend from an intersection with the Dakota Division of the Chicago & Northwestern, in the city of Pierre, S. Dak., to an intersection with the Pierre Rapid City & Northwestern Ry., 0.2 miles north of Fort Pierre, a distance of 1.79 miles. The crossing of the Missouri River will be effected by the construction of a bridge between Pierre and Fort Pierre. The substructure of this bridge will consist of seven masonry piers carrying the superstructure and one up-stream protection masonry pier for the draw span. The superstructure will consist of four fixed spans, each 350 ft. long, and a draw span 445 ft. long, its total length from center to center of end piers being 1,864 ft. The draw span provides for two clear openings, each 200 ft. wide. The Pierre, Rapid City & Northwestern Ry. begins at an intersection with the Pierre & Fort Pierre Bridge Ry., 0.2 miles north of Fort Pierre, and extends in a general westerly direction, traversing portions of Stanley, Lyman and Pennington Counties, and terminates at an intersection with the Nebraska & Wyoming division of the Chicago & Northwestern at Rapid City, a distance of 165.47 miles. The construction of this railway is well advanced and will be completed in the early part of 1907. The company has also undertaken the construction of an extension from Bonesteel, S. Dak., to Gregory, S. Dak., a distance of 25.93 miles, which will be completed during the ensuing fiscal year. An ordinance has been passed by the City Council of Sheboygan, Wis., which will permit the construction of a cut-off 4.13 miles long through that city in connection with a new passenger station and a new freight house. In addition to effecting a saving in distance the cut-off will avoid the heavy grades and numerous grade crossings on the present line. E. C. Carter, Ch. Engr., Chicago.

CHICAGO, ROCK ISLAND & GULF.—Company has amended its charter providing for the construction of a branch line from Irving, Dallas County, Tex., north to Carrollton, a distance of twelve miles. Surveys have been completed for this line and construction will begin at once. S. B. Hovey is Gen. Supt. and J. S. Peter Chief Engr., at Fort Worth, Tex.

CORTLAND & AUBURN.—We are officially advised that this company, recently incorporated in New York, probably will let contracts soon for building its railway from Cortland to Auburn in a direct line, about 36 miles in length. Survey has been made and nearly all right-of-way secured. Benjamin L. Webb is Pres., Cortland, N. Y. Walter Loring Webb, 2222 Land Title Bldg., Philadelphia, is Ch. Engr. Work to be done is principally gravel with about four miles of difficult work. This company was erroneously noted last week under title of "Portland & Auburn." N. A. Bundy is Vice-Pres. and Gen. Mgr., at Cortland.

GEORGIA & EASTERN.—This company has been granted a charter in Georgia to build a railroad from Americus via Vienna to Eastman, 82 miles, passing through the counties of Sumter, Dooly, Wilcox, Pulaski and Dodge. Capital stock, $100,000. Incorporators: J. P. Heard, J. O. Hamilton, Joseph Burns, P. G. McDonald, M. P. Hall, J. J. Cooper, C. T. Stovall, Ed. Howell, D. B. Thompson and J. Frank Howell. Headquarters, Vienne, Ga.

GULF & SABINE RIVER.—This company has been organized at Leesville, La., to build a railroad from Leesville to Merryville, La. Capital stock, $100,000. Directors: S. H. Fullerton, M. L. Fleihel, C. S. Millard, J. L. Reaves and G. W. Johnson. Headquarters, Leesville, La.

LOUISVILLE & NASHVILLE.—This company has authorized the construction of 26 miles of double track between Corbin and Livingston, Ky. It is reported to have awarded to the EDINGTON-GRIFFITHS CONSTRUCTION CO., of Knoxville, a contract for 14 miles of the work. The contractors will do the heavy work requiring steam shovels, and will sublet the remainder.

MOBILE & WESTERN.—Incorporated in Alabama with $100,000 capital to build a line from Mobile west to the Mississippi River. R. K. Mann, of Muskegon, Mich., is Pres.; G. Watwood, of Mobile, Vice-Pres. and Gen. Mgr., and W. H. Mann, of Elkhart, Ind., Secy. and Treas. H. A. FILKENS, of Mobile, has contract for work under way. Grading has been completed for 15 miles, and track laid for ten miles.

NATCHEZ & EASTERN.—Bids are asked by this company at office of Chief Engineer, Brookhaven, Miss., for grading 21 miles of roadbed in Franklin County, between the Homochitto River and Wells Creek, near Roxie. (Advertised, Engineering News.)

NORTH SHORE & WESTERN.—Incorporated in Illinois to build a railroad from Evanston to Elgin. Capital stock, $50,000. Incorporators: William C. McHenry, Harry P. Pearsons, William A. Love, Ernest R. Fifer and George P. Merrick. Principal office, Chicago.

OCONEE COUNTY RY.—C. G. Sayre, Anderson, S. C., Ch. Engr., advises us that contracts for construction probably will be let next spring. The company proposes to build a 15-mile railway from Westminster to Townville, S. C., via Oakway Cross Roads. Surveys have been made and right-of-way secured. Capital is nearly all obtained. J. J. Fretwell is Pres.

PORT ANGELES & PENINSULAR.—Lester Turner, Pres., Seattle, Wash., advises us that this railway has been sold to the Northern Pacific R. R. Co. As previously noted, "financial arrangements are said to have been made for building this road from Port Ludlow, Wash., to the Quillayute River. From Port Angeles the main line will be built with all possible speed to Lake Crescent, 20 miles west, and thence five miles along the shore of the lake. Simultaneously construction will be carried eastward 50 miles to Port Ludlow. It is expected that before 1907 these 75 miles will be in operation, and connected with Seattle and Everett by means of ferries. The sea distances are approximately 26 miles from Port Ludlow to Everett, and 35 miles from Port Ludlow to Seattle. Huge ferries of the type of the boats now carrying trains across the bay at San Francisco will be used for the immense lumber tonnage to be developed, while a fast, commodious boat will take care of the passenger traffic across the sound. From Lake Crescent the western division of the Port Angeles & Peninsular will be extended 53 miles to the Quillayute River. From Junction City on the Port Ludlow line the Port Angeles & Olympia will build 97 miles south to the state capital. The total mileage of the semi-circular line around the Olympics will be 211; 133 miles from Olympia to Port Angeles and 78 miles from Port Angeles to Quillayute. To feed this main line from the timber tonnage to be drawn upon several laterals are to be run toward the heart of the Olympics." Lester Turner, of Seattle, Wash., is Pres. A press report recently stated that "Port Angeles is to be made the milling center of the system. To a plant now having a daily output of 750,000 shingles are to be added immediately the mills of three new companies, which promise a daily output of 250,000, 300,000 and 500,000 feet, respectively. This much as a beginning at an early day for what is intended to become the greatest lumber milling center in the state, perhaps in the world."

RIVERSIDE, R. R.—This company has been organized at Reno, Nev., with a capital stock of $1,000,000 to build a line from Reno north to Laughton Springs, six miles. Among the incorporators are F. R. Nicholas, Peter Dohr and W. H. Pennell.

ROUND POND TERMINAL CO.—This company has been incorporated in Arkansas with a capital stock of $5,000 to build a line at Forest City, Ark., from Round Pond to connect with other roads. G. V. Nash and F. W. Perkin, of Forest City, are named as the incorporators.

ST. LOUIS & MONTESANO.—Incorporated in Missouri to build a railroad from the St. Louis County line to Flat River, 63 miles. Capital stock, $4,000,000. Incorporators: Charles A. Gutke, A. Furer, L. A. Hall, Harry W. Gutke and B. Wasserman, all of St. Louis, Mo.

SHELBY COUNTY RY.—We are officially advised that this company is ready to let contracts for building its line from Shelbina to Shelbyville and Bethel, Mo., 14 miles. William C. Blackburn is Pres., at Shelbina, Mo. William Mitchell is Ch. Engr., Shelbyville, Mo. Survey has been made. Company has everything ready to begin work and will receive bids.

SIERRA PACIFIC.—Company has been organized in California by Otto E. Bashore and Josiah W. Davis, of Porterville, Cal.; R. Linder, of Tulare; T. A. Howeth, of Porterville; Frederick Ackerman, of Plano; Frederick A. Dodge, of Hanford; C. B. Reas, of Success; L. E. McCabe, of Visalia; George D. Avery, of Porterville; S. E. Henley, of Globe, and James H. Stufflebeem, of Kern City. The directors organized by electing Otto E. Bashore, Pres.; Josiah W. Davis, First Vice-Pres.; C. B. Reas, Second Vice-Pres.; T. A. Howeth, Secy., and R. Linder, Treas. L. E. McCabe, of Visalia, was appointed Ch. Engr. Several committees on right-of-way, finance, supplies, surveys, etc., were named by the president. The capital stock, as stated in the articles of incorporation, is $5,000,000. The road will begin at Globe, as the eastern terminus, and run westward through Success, Worth, Plano, Porterville, Woodville and Tulare, thence north through Tagus, thence west to Hanford. From Hanford west through Lemoor, Huron, Coalinga, to a point northwest of Alcalde, where the road will pass through the mountains. From this point it will run in a southerly direction to Paso Robles and through Templeton and Santa Margarita to San Luis Obispo and Port Harford, where the western terminus will be located. Also commencing at a point near Tulare, a road will be constructed to the northward, through Visalia to Fresno, possibly passing through Dinuba, Reedley or Orosi and probably through Sanger, from the same point southward to Bakersfield.

SOUTH CAROLINA.—T. W. Law, of Bishopville, S. C., announces that survey has been completed for a railroad to connect Bishopville with the Seaboard Air Line, and company expects to commence construction by Jan. 1. The road will be about 22 miles long. Company already owns or has secured by option terminal sites and right-of-way. Mr. Law wishes to correspond with dealers in railway supplies, rails, ties, etc. A survey for an extension is being made to Lancaster, S. C. Bonds will be issued, and Mr. Law will be glad to get in touch with parties handling such securities.

TEXAS.—Mayor R. L. Chalk, of Killeen, Tex., advises us that parties interested are now negotiating with capitalists to build a railway from Fort Worth to Georgetown and Aransas Pass, and also to Godley, Glen Rose, Hico, Hamilton, Yatesville, Killeen, Florence and other towns, about 400 miles long. Towns along proposed route will donate right-of-way, depot grounds, etc. No survey has been made.

THOMASVILLE & NORTHEASTERN.—This company has been granted a charter in Georgia to build a railroad from Thomasville to Sparks, 50 miles. Capital stock, $75,000. Incorporators: J. Frank Harris, W. L. Adams, H. Roberts and C. C. Shelley, of Pavo; J. J. Hodges, of Okalico; Berry Croft, of Hemstead; E. M. Smith, J. F. Evans, C. W. Cooper, W. C. Snodgrass, of Thomasville. Principal office, Thomasville, Ga.

WESTERN & GULF.—This company has applied for a charter in Georgia to build a railroad from Americus to Hawkinsville, 85 miles; capital stock, $200,000. Incorporators: Frank Lanier, Lee Allen, E. C. Parker, C. C. Hawkins, Crawford Wheatley, Frank Sheffield, G. M. Eldridge, W. S. Roach, J. E. Sheppard, H. L. Mize, C. L. Ansley, R. J. Perry, J. J. Hanesley, W. M. Jones, George Oliver, M. B. Council, S. A. Pruitt, R. S. Broadhurst, D. M. Borum, J. S. Bolton, A. W. Smith, A. Rylander and J. C. Roney, of Americus and Sumter County, and J. Pope Brown, P. H. Lovejoy, J. F. Coney, W. N. Parsons, D. Rhodes, J. L. Huggins, J. H. Taylor, T. B. Ragan, T. C. Taylor, W. C. Hurley, E. J. Henry and J. J. Harvard, of Hawkinsville and Pulaski County. Headquarters, Americus, Ga.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

SPRINGVALE, ME.—The York & Oxford Ry. Co. has been incorporated in Maine to build a standard-gage railway from terminus of the Atlantic Shore Line Ry. in Springvale through the towns of Sanford, Shapleigh, Acton, Newfield, Limerick, Parsonsfield, and Cornish in York County, Porter and Hiram in Oxford County, and from Baldwin to Bridgeton Junction in Cumberland County, a total of 40 miles. The capitalization is $160,000. The directors are Fred. J. Allen, Secy. of the Atlantic Shore Line Ry., George W. Hanson, Sanford; J. M. Lord, Parsonsfield; Henry E. Eastman, Charles G. Moulton, Limerick; Ira H. Moore, A. P. Towle, Newfield; Allen Garner and O. L. Stanley, Kezar Falls.

BOSTON, MASS.—Application has been made to the Board of Railroad Commissioners for a certificate to show that a public exigency exists for the construction of the proposed Boston & New York Electric R. R., by A. B. Leach and James G. Campbell, of South Orange, N. J.; of William O. Blaney, of Boston; Elwyn G. Preston, of Woburn, Mass.; S. W. Reynolds and Harry M. Howard, of Brookline; Edward C. Sherburne, of Boston; James M. W. Hall, of Cambridge; of Theodore N. Vail, of Lyndonville, Vt. Announcement of the plan to build a line between the cities named in the title of the company was made in Boston last week by S. D. Reynolds, 35 Congress St., Boston, who estimates the cost of the road and its equipment at about $20,000,000. It is stated that there will be no difficulty whatever in securing the necessary funds.

SYRACUSE, N. Y.—We are officially informed that contract has been let to C. E. & J. S. KAULBACK, of Phoenix, N. Y., for building a 15-mile extension for the Syracuse, Lake Shore & Northern R. R. from Baldwinsville to Fulton, N. Y. Thomas H. Mather is Ch. Engr., at Syracuse.

WESTPORT, N. Y.—The Essex County Traction Co. has been incorporated with a capital of $1,500,000, to construct an electric road 41 miles long, from Westport on Lake Champlain to Newman, Essex County, running through Elizabethtown. The principal office is at Au Sable Forks. The directors are: Albert L. Washburn, Norman C. Spencer, Wilbur T. Holliday and E. S. Goodrich, of Hartford, Conn.; William L. Miley and Thomas D. Trumbull, of Glens Falls, and R. L. Trumbull, of Au Sable Forks.

HARRISBURG, PA.—Charters have been issued at the State Department to the Midway & Burgettstown Street Railway Co., capital $37,000, to build a [illegible]-mile line between Midway and Burgettstown. The directors are: Chas. V. Dahlinger, Pittsburg, Pres.; John W. Thomas, V. [illegible] Powell, J. B. Flack, L. W. Bingham.

The Governor has approved the application of the Douglass & Donora and West Newton & Webster Street Railway Companies for a merger under the name of the Pittsburg, McKeesport & Westmoreland Railway Co., with a capital of $48,000, and offices in Pittsburg. The officers are: T. F. [illegible], Pittsburg, Pres.; I. I. Robertson, West Newton, Vice-Pres.; J. E. Hornberger, Pittsburg, Secy., and E. P. Douglas, West Newton, Treas.

PENNSBORO, W. VA.—The Kanauga Traction Co., of Pennsboro, has been chartered to build a line from Gallipolis to Pomeroy, with principal office at Pennsboro and a branch at Kanauga, Ohio. Work probably will begin immediately. The incorporators are: H. March, J. H. Lininger, of Harrisville; A. M. Douglas, of Cairo; C. R. Cunningham, M. K. Duty, of Pennsboro, W. Va.

ATLANTA, GA.—We are officially advised that the Atlanta, Buford & Gainesville Electric Ry. Co. has made a survey for its proposed line, which is to run from Atlanta to Norcross and Gainesville, with a branch from Norcross to Cumming, 80 miles. Right-of-way is practically all secured. E. Philbrick is Ch. Engr., at Baldwin, Ga.

MEMPHIS, TENN.—We are officially informed that the Memphis, Covington & Northern Ry. Co. will build a 39-mile electric railway from Memphis to Covington, Ky. Surveys are made, but right-of-way is not yet secured. Maps, profiles and estimates are being prepared. The W. K. Palmer Co., Dwight Bldg., Kansas City, Mo., is Engr.

CORINTH, MISS.—Mark T. Bynum states that the Corinth & Shiloh Electric Railway Co. has been financed by W. W. Williams & Co., of Nashville, Tenn., who took the entire bond issue of $500,000. Construction of the proposed line from Corinth to the National Shiloh Park, Shiloh, Tenn., 22 miles, will begin soon. Abe Rubel, of Corinth, is Pres. Noted last week.

CLEVELAND, OHIO.—At a recent meeting of the directors of the Cleveland & Southwestern Traction Company a committee was appointed to go over the plans for improvements to the system, and to decide whether to carry out all of the plans immediately and spend $75,000 or to spend only $50,000 for the present. The company is now securing estimates on the cost of installing an additional turbine and boilers in its Elyria power station, to take care of the needs of the Cleveland, Ashland & Mansfield extension to the system, which is now well under way.

MARION, OHIO.—John G. Webb, George H. Holzbog H. B. Harris, James S. Webb and George Whysall have incorporated the Marion & Western Railway, Light & Power Co., of Columbus, with an authorized capital stock of $200,000. The new company is controlled by the same interests which own the Columbus, Delaware & Marion, to Richwood, Marion County. The distance is a little more than seven miles. With the completion of the line, work on which will begin soon, through cars will be run from Richmond to Columbus. John G. Webb, James A. Webb and Messrs. Holzbog, Harris and Whysall also have incorporated the Marion & Suburban Railway Co., of Columbus, with a capital stock of $250,000. This company will operate street railways in Marion and lines extending from Marion to other towns in Marion County.

TOLEDO, OHIO.—The Riggs & Sherman Co., Consult. Engrs., the Nasby Bldg., Toledo, will prepare plans for a traction line to connect Toledo and Defiance.

WABASH, IND.—V. J. Drayer, Pres. of the Indiana Central Traction Co., announces that the road has been financed and that the construction of the line from Wabash to Warsaw will commence at once.

LAFAYETTE, IND.—Arrangements have been made whereby 13 miles of electric railway, a part of the system planned by the company incorporated to construct a traction road from this city to Chicago, will be built by the students of Purdue University. The officers of the company and the faculty of the university have made arrangements whereby the students will have full charge of the work of building the first section of the road, and they have already begun the survey under the guidance of the members of the faculty.

EFFINGHAM, ILL.—The Effingham & Olney Interurban R. R. Co. plans to build an electric railway to connect Effingham, Olney, Elliottstown, Eberle, Bible Grove, Ingraham and Passport. The company is desirous of financing the project and would be pleased to hear from companies which might be willing to finance the road. Dr. R. S. Wishard, Eberle, Ill., represents the company.

ST. LOUIS, MO.—The Jefferson Traction Railway Co. was incorporated Oct. 1. It holds franchises for and is preparing to build about 20 miles of road connecting six cities and towns near St. Louis. Electric power probably will be used. E. R. Kinsey, 313 Real Estate Bldg., St. Louis, is Gen. Mgr., and Eng.-in-Charge.

CLEBURNE, TEX.—M. D. Miller and C. C. Byers announce that preparations are about completed and they are about ready to take up correspondence about building the proposed interurban railway from Cleburne to Glen Rose, of which they are the promoters. Address Lock Box 595, Cleburne, Tex. Noted on Aug. 30.

DALLAS, TEX.—The charter of the Texas Traction Co. has been filed with the Secretary of State providing for the construction of a line of electric interurban railway from Sherman to Dallas, Tex., a distance of about 65 miles. Construction will begin at once. The company has authority to own and operate street car lines in the cities it passes through, also union passenger depots. The

capital stock of the company is $3,000,000. The following are its directors: F. H. Proctor, Boston, Mass.; W. G. Clark, New York; W. R. Brentz, Sherman, Tex.; J. S. Head, McKinney, Tex.; R. H. Baker, Austin, Tex.; D. A. Templeton and O. Goodwin, Dallas, Tex.; W. J. Neale, Ft. Worth, Tex.; M. B. Templeton, Waxahachie, Tex.; F. A. Jones, Houston, Tex., and J. N. Simpson, Dallas. The main office of the company will be at Dallas. Noted on Sept. 20.

FORT WORTH, TEX.—The Citizens' Railway & Light Co. of North Fort Worth and Arlington Heights, is a new company recently incorporated to take over the Arlington Heights Traction Co. of six miles, and the North Fort Worth & Rosen Heights line of twelve miles; also the Citizens' Light & Power plant. The company intends building an interurban railway from Fort Worth to Mineral Wells. The directors are: Warren Bickwell, of Cleveland, Ohio; J. R. Harper, E. W. Christy and Carey B. Close, of Toledo, Ohio; W. O. Allen, of Fostoria, Ohio; Sam Rosen, George E. White and George E. Montgomery, of Fort Worth. Noted on Sept. 16.

LAWTON, OKLA.—The Lawton Rapid Transit Railway Co. has been chartered, capital $1,000,000, to build 20 miles of electric railway in Lawton. The incorporators are: Neal S. Doran and E. H. Shaufler, of Kansas City; W. M. Smith, H. A. Lloyd and J. Elmer Thomas, of Lawton.

The Lawton Interurban & Street Railway Co. has been chartered with $100,000 capital to build an interurban electric railway from Lawton to Fort Sill and other points in Comanche County. The incorporators are: Frank Broadwell, Frank McMasters, Phil McGrory, B. F. Bowman and George Short.

STERRETT, IND. T.—A. S. Farnham, Atoka, Ind. T., in reference to the Oklahoma Heat, Light & Traction Co.'s railway, advises us, under date of Oct. 1, that "no definite steps have been taken yet toward organizing this company. I am the local counsel for the people who are interested in the proposition, and about all that has been done is to look over the field and see what inducements can be secured. The proposed name and route are given on the enclosed card, and that is about all the definite information that I can now furnish you. I expect to file the articles of incorporation in a few days, and the survey will probably commence in less than two weeks. I. T. Murray, Sterrett, Ind. T., is giving the matter his personal attention, and all communications relative to the matter should be addressed to him. The line will extend from Sterrett to Marietta, Sulphur and Kemp, about 150 miles. Capital is secured. Contracts will be let in about 60 days. Motive power will be electricity or gasoline."

TACOMA, WASH.—The Tacoma Railway & Power Co. and the Puget Sound Electric Co. will build an interurban railway connecting Tacoma, Puyallup, Sumner and Orting as soon as the franchises can be secured. The line between Puyallup and Sumner will be built first, and will be connected with the present Puyallup-Tacoma line until the line running out of the valley from the end of Puyallup Ave. can be constructed. Stone & Webster, Boston, Mass., are Engrs. W. S. Dimmock, Tacoma, is Mgr.

NAPA, CAL.—GEORGE ERRINGTON, of Napa, has secured the contract for the grading the 18-mile extension of the Napa Valley Electric Railroad from Napa to St. Helena. The route of the new road will pass through a private right-of-way from Napa to Union Station, Yountville, Oak Knoll and Rutherford, and will have its present terminus at St. Helena, although it is understood that the contracts for the Calistoga extension will be let in the near future if the labor and material market assume a more hopeful aspect. L. J. Perry is Mgr.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

MANCHESTER, VT.—It is reported that the city will erect a lighting plant at a cost of $30,000.

BRIDGEPORT, CONN.—It is reported that the Connecticut Ry. & Lighting Co. is to erect a power plant on the Housatonic River below Bulls Bridge. J. E. Sewell is Gen. Mgr. Estimated cost, $700,000.

CANASTOTA, N. Y.—Bids are asked until Nov. 1 by E. B. Roberts, Village Clk., for lighting the streets and public square of this village for a period of two or five years, beginning Feb. 6, 1907.

NEW YORK, N. Y.—The ELECTRIC POWER & EQUIPMENT CO. has been awarded the contract for installing the electric equipment in School 90, Borough of Manhattan, for $14,930.

PITTSFIELD, N. Y.—The Pittsfield Electric Co. has increased its bond issue from $100,000 to $150,000, and the capital stock has been increased from $150,000 to $225,000.

ORISKANY, N. Y.—It is reported that a municipal plant is to be erected here to light the city by electricity.

ORANGE, N. J.—Bids are asked by the Street Lighting Committee until 8 p. m., Oct. 29, for engines, generators and arc lights in connection with the municipal lighting plant. Edward Cheetham is Chn. (Advertised, Engineering News.)

RIVERSIDE, N. J.—The William Steele & Sons Co. have plans posted for a power-house to be erected here. The buildings will be two stories high, of brick and structural iron, and will cover an area 81 x 70.6 ft.

ANNAPOLIS, MD.—Bids are asked by the Navy Department, Washington, D. C., until noon, Oct. 17, for the erection of a reinforced concrete power house at the U. S. Naval Academy. Truman H. Newberry, Acting Secy.

BALTIMORE, MD.—The Washington, Baltimore & Annapolis Railway Co., Maryland Trust Bldg., Calvert and German Sts., which is building an electric line between Baltimore, Washington and Annapolis, will erect three power stations, one to be located near Academy Junction and the other ones near Baltimore and Washington. Contracts for power equipment have been awarded. George T. Bishop is Pres.

DANVILLE, VA.—It is reported that the city will spend $40,000 in improvements on the gas plant. Frank T. Albott is Supt. of Gas Works.

LURAY, VA.—At a recent meeting of the stockholders of the Shenandoah River Light & Power Co., which is developing the water power of the Shenandoah River, $10,500 additional stock was subscribed to complete the construction work on the plant. The company has a capital stock of $62,000. The cost of the plant will be from $55,000 to $60,000, including the amount paid for the gas plant and Luray Electric Co.'s plant. It is expected to have the plant in operation by Dec. 1. It is estimated that about 600 HP. will be transmitted by electricity to Luray. John L. Livers is Ch. Engr.

LYNCHBURG, VA.—H. L. Shaner, City Engr. of Lynchburg, writes that this city will shortly advertise for bids for the construction of an arc lighting plant. Lamar Lyndon, of New York, is Consult. Engr. for this work.

HICKORY, N. C.—The Water-Power Electric Co. is planning to begin the construction work required for the establishment of its proposed water-power electric plant. It is proposed to utilize water powers on the Catawba River and develop 12,500 HP. for transmission by electricity to Hickory and to industries in this section. The initial installation will be planned for 8,000 HP., and engineers have recently been making surveys and estimates. Probably plans and specifications for constructing dam, building electric power-house and installing machinery will be ordered in the near future, and further details as to the entire project will soon be announced. It is understood that B. F. Groff, of Lancaster, Pa., Wallace Wilson, of Tyrone, Pa., and other Pennsylvania parties will be interested. Marcellus E. Thornton is Pres.

CHARLESTON, S. C.—Bids are asked until 11 a. m., Oct. 13, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for a power plant. Mordecai T. Endicott, Ca. of Bureau.

BRANDON, MISS.—Kirkpatrick & Johnson, Archs., of Jackson, are making preliminary plans for water-works and electric light plant, which is to be erected here at a cost of about $25,000. R. E. Galden is Mayor.

NAPOLEONVILLE, LA.—Bids are asked until Oct. 20 by Philip H. Gilbert, Mayor, for constructing an electric light plant. H. B. Barringer, of Cinclare, La., is Consult. Engr.

WATERTOWN, TENN.—The electric light plant to be erected here by the Watertown Light & Power Co. is to cost about $15,000. Noted in issue of Sept. 20.

ATHENS, OHIO.—See under Buildings.

CLEVELAND, OHIO.—Bids are asked by the Board of Public Service until Oct. 12 for steam fittings and connections for the municipal electric light plant. J. B. Vining is Secy.

LOWELLVILLE, OHIO.—Bids are asked until Oct. 15 by the Board of Trustees of the Lowellville Electric Light Works for furnishing material and installing an electric light plant, comprising boiler, engine, dynamo and switchboard.

MINERVA, OHIO.—It is reported that an electric light plant is to be erected here.

WESTERVILLE, OHIO.—The citizens have voted to issue $12,000 of bonds for a municipal lighting plant and the purchase of the plant of the Westerville Electric Co. The plant will, it is said, be run in connection with the water-works system, and will be enlarged and improved.

ANN ARBOR, MICH.—The Washtenaw Power & Light Co. is expected to begin work on a power dam on the Huron River near here next spring. The company is backed by the North American Power & Development Co.

CHILLICOTHE, ILL.—The Water, Light & Power Co. has been incorporated with a capital of $50,000. Frank H. Earl, W. H. Foster and Charles A. Kingsbury are the incorporators.

MILWAUKEE, WIS.—Robert W. Hunt & Co., Rookery Bldg., Chicago, have been selected to prepare plans for the municipal electric lighting plant and to supervise the erection of the machinery. Noted in issue of Oct. 4.

MILWAUKEE, WIS.—Bids are asked by the Board of Public Works until 10.30 a. m., Oct. 13, for lighting certain streets in this city with 60-CP. incandescent street gas lamps.

WAPELLO, IOWA.—The Wapello Electric Light & Power Co. will soon ask bids for constructing a water and light plant, estimated to cost $15,000.

OBERLIN, KAN.—This city will install a city electric light system in connection with the city water-works, which will cost $10,000.

WILLISTON, N. DAK.—The GENERAL ELECTRIC CO., of Schenectady, N. Y., has been awarded the contract to furnish material and machinery for the electric generating plant of the power and pumping system in the Williston irrigation project. The bid was $41,242.

GRAND FORKS, N. DAK.—EDWARD HEALY, of Red Lake Falls, has been awarded the contract to erect the new power plant which is to transmit electricity from Red Lake to this place.

MARYVILLE, MO.—See under Water Supply and Irrigation.

BOONEVILLE, ARK.—THEO. C. TREADWAY, of the Treadway Electric Co., of Little Rock, will erect a municipal electric light plant in this city. The plant will probably be in operation by Nov. 15.

CORPUS CHRISTI, TEX.—It is reported that George Adt, representing a Chicago company, has applied for franchise to establish a $40,000 gas plant.

MEXIA, TEX.—The Mexia Light & Water Co. has been incorporated with $100,000 capital stock by Joseph Nussbaum, H. O. Cravens of Mexia and E. M. Turner of Hillsboro, Tex.

TEXARKANA, TEX.—The charter for the Citizens' Light & Power Co. has been filed, for the purpose of installing a plant to furnish electric lights and electric power to consumers in Texarkana. The capital is $50,000, and the following are the incorporators and directors: John B. King, Roland Rogers and Scott B. Williams, William P. Harrison and C. C. Taylor.

DURANT, IND. T.—The City Council has accepted the proposition of L. S. Skelton, of Okmulgee, to erect and operate a gas plant in this city.

GREELEY, COLO.—Tax payers voted by a large majority on Sept. 25 in favor of granting the Greeley Gas & Electric Co. a franchise. The company will now issue bonds, enlarge its plant, build a new power house and install a new system of making gas. About $40,000 will be expended.

GRANITE FALLS, WASH.—The Everett Railway, Light & Power Co., of Everett, is contemplating the construction of a hydro-electric plant here. The plant will have a capacity of 4,000 HP., and will cost about $350,000. The electrical machinery has been ordered and it is hoped to have the plant in operation within a year. E. P. Burch is Consulting Engr., and J. T. McChesney is Pres. and Mgr.

ROSALIA, WASH.—Arthur D. Jones, of Spokane, has applied for an electric light franchise at this place. The chief promoter of the scheme is the Spokane & Inland Electric Railway Co. A. N. Lupper is Ch. Engr.

TACOMA, WASH.—A. L. Thorn, City Electrician, has completed plans for a reinforced concrete substation, to be erected on South 25th and C Sts., to cost between $15,000 and $20,000.

RED BLUFF, CAL.—The Northern California Power Co. has purchased the 160-acre ranch of L. N. Gould above Plateau, on the Shingletown Ridge, and will turn the 1,400 inches of water, with the place, into the penstock of the Volta power plant at Manton. This will give greater capacity to the plant, which will soon have another power house built near the present plant. E. V. D. Johnson, of Redding, is Pres.

SANDPOINT, IDAHO.—The Sandpoint Citizens' Water, Light & Power Co., Ltd., has been incorporated with a capital stock of $150,000. The incorporators are George Heaton, Robert Coons, Lee L. Partner, Frank C. Culver and B. S. Difenbach.

SALT LAKE CITY, UTAH.—A M. Hill, A. P. Hanson and L. H. Gray have filed an application for water rights for a flow of 110 cu. ft. a second, to be diverted from the Blacksmith fork of Bear River, in Cache County. The diverting work will consist of a dam, headgate and pipe line 8,000 ft. long and 18 ins. in diameter. Two hydro-electric units will be installed.

GRAVENHURST, ONT.—It is reported that contracts for the proposed electric light plant have been awarded as follows: Electrical apparatus, to ALLIS-CHALMERS-BULLOCK CO., of Toronto; water wheels, to JENCKES MACHINE CO., of Toronto, and steel flume to CANADA FOUNDRY CO., of Toronto. Contracts for pole line and receiving station not yet let, and no date yet fixed for receiving bids for same.

NEW WESTMINSTER, B. C.—The Chilliwac Light & Power Co. will at once proceed with the construction of a power line from here to Chilliwac. J. Burtt Morgan is Mgr. and Secy.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

DANVERSPORT (Danvers post-office), MASS.—The Essex County Commissioners have decided not to award any contract for completing the construction of the Waters bridge at Danversport. Bids were received from John Sullivan, Danvers, $13,800; James J. Welch & Co., Salem, $17,416, and Pitman & Brown Co., Salem, $15,965. Mr. Sullivan agrees to complete the work Jan. 2, 1907, and the others name Jan. 1, 1907. The Legislature originally authorized the expenditure of $25,000, and the commissioners expended in all $31,500. They paid the same, and bills to the amount of $10,000 additional were contracted and are still unpaid.

BRADFORD, R. I.—Bids were received at the Bureau of Equipment, Navy Dept., Washington, D. C., Oct. 3, for construction of steel bridges, timber trestle and cable railway track at the U. S. Naval Coal Depot, Narragansett Bay, Bradford, R. I. Bids were as follows: Augustus Smith, 149 Broadway, New York, $15,528; Monongahela Mfg. Co., 1... Liberty St., New York, $16,970; New Jersey Foundry & Machine Co., 9 Murray St., New York, $16,964 (conditional), $17,064 (unconditional).

HOOSICK FALLS, N. Y.—We are officially advised that M. FITZGERALD, Hoosick Falls, has contract to construct concrete bridge. The cost is not to exceed $27,000. W. P. Haynes is Town Clk.

ALBANY, N. Y.—The Canal Board, state of New York, has approved plans and specifications for Barge Canal Contract No. 16, which embraces the work of furnishing and erecting in place steel highway bridge superstructures, as follows: Bridge at Station 293 + 90; Comstock's bridge, Station 392 + ..; Dewey's bridge, Station 468 + 0; Fort Ann bridge, Station 600 + 20; Brayton's bridge, Station 687 + 11; Smith's Basin bridge, Station 914 + 0; Dunham's Basin bridge, Station 1048 + 70; East St. bridge, Station 1187 + 0; Argyle St. bridge, Station 1216 + 85; bridge below Lock 7. Engineer's estimate is $70,718. Henry A. Van Alstyne is State Engr. Bids will be asked by N. V. V. Franchot, Supt. Pub. Wks., Albany, shortly.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Oct. 18, by the Park Board, Moses Herrman, Pres., for erecting a rubble stone foot bridge in the Botanical Garden in Bronx Park.

KENNERDELL, PA.—The following bids are reported to have been received Sept. 21 by the Board of Commissioners, H. M. Baumgarden, Chn., for furnishing material and constructing a bridge across the Allegheny River at Kennerdell. The superstructure to consist of two half-through steel plate girder spans, 60 to 80 ft. long respectively, and three through steel truss, channel spans, 200, 260 and 290 ft. long respectively, with 18-ft. clear roadway and reinforced concrete floor throughout; substructure to consist of two channel piers and two shore piers of stone, with concrete backing and bases and steel towers at intersection of plate girders; approaches to consist of about 4,200 yds. natural earth or rock filling; one of the approaches to be confined within concrete walls, the other rip-rapped: AMERICAN BRIDGE CO., 42 Broadway, New York, N. Y., $69,660 (awarded contract); Canton Bridge Co., $40,000; Penn Bridge Co., $73,045; New Jersey & West Virginia Bridge Society, $74,238; Rogers Bros., Albion, Pa., $74,014; Pennsylvania Steel Co., $75,882; Toledo-Massillon Bridge Co., $76,887; Nelson Construction Co., $78,021; York Bridge Co., $80,443; McClintic-Marshall Construction Co., $87,914.

READING, PA.—Bids are asked until 10 a. m., Oct. 19, by H. F. Livingwood, County Controller, for replacing bridge over Berkley Creek with a steel 60-ft. span. The substructure is to be of concrete and the walls of rubble masonry. (Advertised, Engineering News.)

SEWICKLEY, PA.—W. Y. Sibert, Government Bldg., Pittsburg, Pa., is reported to have had surveys made and is considering plans for the erection of a bridge over the Ohio River at Sewickley. The bridge will have a 900-ft. span and will cost $450,000.

EAST BERKLEY, PA.—We are officially advised that all bids received for rebuilding bridge over Willow Creek have been rejected. New plans are being prepared. N. M. Davis is Des. Engr.

UPPER MARLBORO, MD.—It is reported that the County Commissioners have awarded contract for constructing the concrete substructure of the steel bridge over the Patuxent River at Hill's bridge to the ROYK BRIDGE CO., at $2,923, and the contract for the superstructure of the same bridge to the CANTON BRIDGE CO., at $4,392.

WASHINGTON, D. C.—Bids were opened at the office of the Commissioners of the District of Columbia, Washington, Oct. 3, for furnishing the steel railing for the Connecticut Ave. bridge, Washington. Bids were as follows: North Penn Iron Co., Third and Venange Sts., Philadelphia, Pa., $5,560; Fred S. Gichner, 1214 D St., N. W., Washington, $5,850; C. A. Schneider's Sons, 210 12th St., N. W., Washington, D. C., $6,760; Ralph C. Moag & Co., Philadelphia, $7,270; J. L. Mott Iron Works, Home Life Bldg., Washington, $..567; New Jersey Foundry & Machine Co., 9 Murray St., New York, $9,440; Chesapeake Iron Works, Severn and Bayard Sts., Baltimore, $8,000, reduced later to $7,550 by telegraph dispatch.

SCOTTSVILLE, VA.—ROANOKE BRIDGE CO., of Roanoke, Va., has contract at $22,000 for the construction of bridge across the James River, connecting the counties of Albermarle and Buckingham.

EDENTON, N. C.—The Norfolk & Southern R. R. Co. will build a bridge across Albemarle Sound and Johnson and Mackey's Creeks at Edenton, N. C. The Government Commission has acted favorably on the application for permission to erect the bridge, and requires that the structure have two draw spans, each 140 ft. wide in the clear; one of these spans must be 5,500 ft. from the north shore and the other 6,500 ft. from the south shore. In addition to the draw spans, two small passageways for motor boats will be provided. J. A. Barron, Berkley, Va., is Supervisor of Bridges and Buildings.

COLUMBIA, S. C.—Bids are asked by the Supervisor until Oct. 15 for building a bridge over Little River, 17 miles from Columbia. Also bids will be received at same time to build a bridge over Crane Creek, six miles from Columbia.

MONROE, LA.—The Vicksburg, Shreveport & Pacific Ry. Co. has awarded contracts to A. M. BLODGETT, and work has been commenced on the reconstruction of the bridge over the Ouachita River near Monroe. The new structure is of steel, 901 ft. long and 16 and 18 ft. wide in the clear. It is estimated to cost $197,750. There is one draw span 295 ft. long; two fixed pin truss spans each 243 ft. long and one fixed pin truss span 120 ft. long. The structure is designed to carry two 90-ton 2-8-0 locomotives followed by a load of 4,000 lbs. per lin. ft. The piers are of concrete and brick. Two cylinder piers of the old structure are to be replaced at either end of the structure by concrete abutments. E. L. Loftin is Supv. of Buildings and Bridges, Vicksburg, Miss.

ST. CLAIRSVILLE, OHIO.—Bids are asked by A. W. Beatty, County Audr., until 1 p. m., Oct. 22, for furnishing material and erecting several bridges.

TOLEDO, OHIO.—Bids are asked until 10 a. m., Oct. 29, by the Board of County Commissioners of Lucas County, at Toledo, for constructing bridges over Miami and Erie Canal in various townships.

EATON, OHIO.—Bids are asked by the County Commissioners of Preble County until Oct. 20 for the erection of a bridge superstructure across Four Mile Creek at the Charles Ford near the center of Section 28, Dixon Township. Fred Roberts is Engr. C. W. Edison is County Audr.

WAUSEON, OHIO.—Bids are asked until Oct. 26 by J. E. Merrill, Audr., for constructing a bridge in Franklin Township, the superstructure of which will be 100 ft.; also a bridge having a 40-ft. superstructure.

CLEVELAND, OHIO.—Bids are asked until Oct. 12 by the Board Public Service for constructing pile and timber protections for Jefferson Ave., S. W., bascule bridge. J. B. Vining is Secy.

Two bridges, one to cross the flats at Clark Ave., S. W., and the other to cross Morgan Run. The first, it is estimated, will cost about $1,000,000.

TROY, OHIO.—The County Commissioners on Sept. 29 awarded the contract for superstructure of the bridge over the canal on Union St., Troy, to the WYNKOOP & McGOVERNLY BRIDGE CO., Toledo, at $5,375. No contract has been made. There was one other bid from Huston & Co., of Cleveland, for $6,025. The bridge is to be 53 ft. long, having a roadway 18 ft. in the clear and a 5-ft. sidewalk on each side. It will have a capacity of 150 lbs. live load. The roadway is to have 3-in. creosote blocks laid on 3-in. creosote plank. The walks are to have 2-in. plank floors.

MICHIGAN CITY, IND.—A contract has been awarded to JOHN J. O'HERON, of Chicago, for the construction of a bascule bridge over the harbor at Franklin St. Price, $95,000.

BLUFFTON, IND.—It is reported that the Wells Conty Commissioners have appropriated $15,000 for a bridge across the Wabash River at Main St.; the City Council has made an appropriation for several smaller bridges.

INDIANAPOLIS, IND.—The contract for construction of a bridge over White River at College Ave. has been let to A. W. MOORE & CO., by the County Commissioners, at $58,690. The bridge will be built of stone.

PEORIA, ILL.—The MARSH BRIDGE CO., Equitable Bldg., Des Moines, Iowa, presented the lowest bid at $150,280 for the construction of the proposed new bridge. The Concrete Steel Engineering Co., Park Row Bldg., New York, N. Y., prepared the plans.

PEORIA, ILL.—Bids are asked until noon, Nov. 6, by E. A. Furry, Commissioner of Pub. Wks., for constructing superstructure of a Scherzer rolling lift bridge across the Illinois River, at Peoria. (Advertised, Engineering News.)

GALENA, ILL.—A. R. IVES, of Galena, has been awarded the contract to build a draw bridge over the Galena River at this town. It will cost $9,600.

DULUTH, MINN.—It is reported that a $12,000 bridge is to be constructed in Lincoln Park. R. D. Rayer, Commissioner.

KANSAS CITY, MO.—A movement is on foot to construct a viaduct from 20th to 23d St., on Main St., across the belt-line tracks. The Central Improvement Co. has charge of financing and building this viaduct, which is to be 60 ft. wide, 1,320 ft. long, and will cost in the neighborhood of $125,000.

EVENING SHADE, ARK.—The County Judge has approved the report of the Commissioners, recommending that a county bridge be constructed across Strawberry River. The bridge will be constructed of steel.

TEXARKANA, ARK.—J. E. Edwards, Judge of Miller County, is having plans drawn preparatory to an estimate as to the cost of a bridge to span Sulphur River. The bridge contemplated will have a total length of one mile. The portion of the bridge spanning the channel of the river will be of steel, and constructed after the best approved models in bridge building.

PINE BLUFF, ARK.—The Jefferson County Levying Court has appropriated $20,000 for continuing the work upon the free bridge which is to be built across the Arkansas River at Pine Bluff.

AUSTIN, TEX.—The Texas Pacific and Abilene & Northern Ry. Co. will join in the expense of an overhead grade crossing of their tracks at Austin. The expense is estimated at $20,000.

LAMPASAS, TEX.—It is reported that bonds to the amount of $10,000 will be issued by Lampasas County for building two bridges across Lampasas River.

TEMPLE, TEX.—The City Council has advertised for bids for the construction of a concrete aqueduct or bridge over First St., the full width of the street, 80 ft.

GALVESTON, TEX.—The Galveston Bridge & Causeway Co. is furthering its plans for the erection of a causeway across Galveston Bay. At the meeting on Sept. 20, officials from the engineering department of various steam and electric railroads were present and the plans were considered. It was recommended that the causeway be 20 ft. above mean low tide, and that all riprap work which has been contemplated be replaced by reinforced concrete construction.

DALLAS, TEX.—It is reported that the Houston & Texas Central Railroad Co. will build a viaduct over Pennsylvania Ave. T. Fay, Houston, is Gen. Mgr.

PORTLAND, ORE.—The contract for constructing a steel bridge on Grand Ave. has been awarded to the INTERNATIONAL CONTRACT CO., 737 New York Block, Seattle, Wash., for $51,736. Thomas C. Devlin, City Audr.

OSWEGO, ORE.—It is reported that the Southern Pacific Co. intends to change its tracks so as to enter Portland on the east side of the city, which would require a bridge across the Williamette River at Oswego.

SPOKANE, WASH.—The Spokane Traction Co. is reported to have submitted plans to the City Council for constructing a viaduct on North Washington St. Estimated cost, $180,000. Alexander Lupper is Ch. Engr.

ABERDEEN, WASH.—Bids are asked by the City for constructing a bridge on the Montesano Road. The bridge will be 484 ft. long, including the approaches. One of the approaches will be 192 ft., and the other 96 ft. The bridge proper will consist of two spans, each 48 ft. long, and will be built of wood.

HOPEWELL CAPE, N. B.—Bids are asked until Oct. 22 by C. H. La Billois, Dept. Pub. Wks., Fredericton, N. B., for building the Mill Creek Mouth bridge.

GORDON, ONT.—We are officially informed that contract for constructing superstructure of steel bridge over Grand River, on Sept. 25, was awarded to JENKS & DRESSER, at $3,690. Contract for constructing abutments, etc., was let to REMIE LAFRAMBOISE, at $2,880. A. C. Mailloux is Township Clk.

TORONTO, ONT.—Bids are asked until noon, Oct. 10, by Emerson Coatsworth, Chn. Bd. of Control, for constructing superstructure and stairways for the Wallace Ave. bridge. C. H. Rust is City Engr.

OTTAWA, ONT.—It is the intention of the Department of Public Works to construct a foot bridge from Parliament Hill, across the junction of the Rideau Canal with the Ottawa River, to the lower end of Major Hill Park, so as to bring the several departmental buildings into as close a touch as possible with one another and with the Houses of Parliament.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

PORTLAND, ME.—Bids are asked until 3 p. m., Nov. 8, by James Knox Taylor, Superv. Arch., Washington, D. C., for constructing quarantine buildings and wharf at House Island, Portland. (Advertised, Engineering News.)

BURLINGTON, VT.—An office building to cost $100,000, is to be erected here. It is to be a 5-story steel building 60 x 117, to be erected on Third and Valley Sts.

HAVERHILL, MASS.—Contracts are soon to be awarded for the erection of the $165,000 high school.

PROVIDENCE, R. I.—This city is to build a hospital to cost at the outset $175,000. The present private hospital accommodations are inadequate and contagious disease patients are being barred out.

ALBANY, N. Y.—The Trustees of Public Buildings have awarded to the RICHARD T. FORD CO., of Rochester, N. Y., the contract for finishing and installing new system of plumbing in the Capitol Building, for $22,712, that company being lowest bidder. George L. Heins is State Arch.

NEW YORK, N. Y.—Bannister & Schell, Archs., 69 Wall St., have plans ready for bids for a bank building on the south side of 125th St., 300 ft. east of Park Ave., for the Harlem Savings Bank, 2279 Third Ave. One and three stories high, 80 x 101 ft., of brick, stone and marble, structural steel, fireproof construction. Estimated cost, $150,00.

Bids are asked by John H. O'Brien, Fire Comr., 157 East 67th St., until 10.30 a. m., Oct. 19, for the following: For furnishing all the labor and materials required for the erection and completion of a new building for Engine Company No. 120, to be located on the southerly side of Eleventh St., Boro. of Brooklyn.

Plans have been filed with the Superintendent of Buildings for a 3-story public bath building, to be erected at Cherry and Oliver Sts. It is to have a frontage of 50 ft. and a depth of 100 ft., with a handsome pilastered facade of brick enamelled in French gray and trimmed with limestone and terra cotta and abundantly lighted by many windows. There will be two floors of baths for men and women, fitted with scores of shower and tub baths. The third floor will be equipped with a gymnasium, and the building will also have a roof garden. It is to cost $125,000. Horgan & Slattery are the Archs.

Plans have been filed for the 13-story apartment house to be built at the southeast corner of Park Ave. and 58th St., for the Densmore-Compton Building Co., of which Darsa J. Densmore is Pres. The structure will be 120 x 82 ft. and will cost about $325,000. C. W. Buckham, 307 Fifth Ave., is Arch.

A new theater is to be erected by Myer R. Bimberg on Flatbush Ave. directly opposite the tunnel terminal of the Long Island R. R. Estimated cost, $250,000.

Lord & Hewlett, Archs., Fifth Ave. and 77th St., have plans for the proposed $3,000,000 Municipal Building which is to be erected in Murphy Park, Boro. of Brooklyn.

UTICA, N. Y.—Bids are asked until 3 p. m., Oct. 24, by the State Commission in Lunacy, Capitol, Albany, for construction, heating plumbing and electric light wiring and feeder cables for Acute Hospital Building at Utica; also for construction of conduit and outside lighting system at the State Hospital, Utica. T. A. McGarr is Secy of the Comn.; George L. Heins, Capitol, is State Arch.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Fire Comr., until 10.30 a. m., Oct. 17, for the erection of a building, and extension for a hook and ladder company to be located on Ralph Ave. near Bergen St., Boro. of Brooklyn.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Oct. 22, by C. B. J. Snyder, Supt. of School Bldgs., for constructing Public School No. 13, on Anderson St., between Pennsylvania and Clifton Aves., Rosedale, Borough of Richmond.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Oct. 30, by James Knox Taylor, Supv. Arch., Washington, D. C., for installing an electric passenger elevator and approaches to replace freight elevator in U. S. post-office and court-house, New York. (Advertised, Engineering News.)

TRENTON, N. J.—C. J. Baxter, State Supt. of Schools, writes us that the State Board of Education will not receive bids for the new State Normal School until the last of November or the first of December. Noted fully in last week's issue.

MONTROSE, PA.—A. E. BADGLEY, Binghamton, N. Y., has been awarded the contract for a 2-story brick and stone Library for the Susquehanna Historical Society.

PHILADELPHIA, PA.—CRAMP & CO. have been awarded the contract at $300,000 to erect the 4-story granite, brick and reinforced-concrete theater for the Broad Street Realty Co. It is to be known as the Edwin Forrest Theater.

PITTSBURG, PA.—Bids are being received by F. H. DeArment, Arch., for an 8-story reinforced concrete apartment building, 91 x 125 ft., to be built at Alder and Spahr Sts., near the Hotel Lamont. J. T. Kyle and others are back of the project and it is estimated that the building will cost $200,000. Concrete is figuring largely in building operations of this city, but this is the first apartment house to be built of that material.

SCRANTON, PA.—Horace Trumbauer, Land Title Bldg., Philadelphia, is preparing plans for a 4-story brick, stone and steel memorial home for aged, for M. Maloney. Estimated cost, $150,000.

WAYNESBURG, PA.—Robinson & Winkler, Archs., House Bldg., Pittsburg, have let general contract to the DUQUESNE CONSTRUCTION CO., Bessemer Bldg., Pittsburg, for a 4-story, brick and stone bank building, 20 x 120 ft., for the People's National Bank, J. A. Dunn, Cashier. Estimated cost, $100,000.

WILMINGTON, DEL.—The Delaware Trust Co. will soon have plans started for a 1-story stone and steel, fireproof bank building at Ninth and Market Sts. Estimated cost, $100,000.

BALTIMORE, MD.—The contract for the new car barn for the United Railways and Electric Co. at Edmondson Ave. and Calverton Rd., has been awarded to J. HENRY MILLER, 110 Dover St. The structure will cost about $125,000, and will be the first of the five houses upon which will be expended $500,000 by the railways company. It is to be a 1-story, reinforced concrete building, 230 x 295 ft. Simonson & Pietsch, American Bldgs., are Archs.

C. E. Cassell & Son, Archs., Law Bldgs., are preparing plans for a 4-story brick addition to a department store at 311-13-15 Martin St., for Bernheimer Bros.

Baldwin & Pennington, Archs., Professional Bldg., are preparing plans for a brick and steel warehouse for the Board of Public Works. Estimated cost, $225,000.

WASHINGTON, D. C.—The contract for the erection of a 10-story office building for W. B. Hibbs & Co., to be erected on 15th St., has been awarded to the GEORGE A. FULLER CO.

The National Metropolitan Citizens' Bank, E. S. Barker, Pres., is considering the enlarging of its building now being erected by increasing its frontage 40 ft. The present building will cost $300,000, and the addition will cost about $250,000 more.

Wyeth & Cresson, Archs., 1517 H St. N.W., are preparing plans for a 4-story brick and stone residence at 24th and U Sts. for J. H. Hammond. Estimated cost, $200,000.

The GEORGE A. FULLER CO., Munsey Bldg., has received the contract for an 8-story brick, stone and steel bank and office building, 50 x 160 ft., for the Union Trust Co. Estimated cost, $600,000.

JAMES L. PARSONS, 13th and Pennsylvania Aves., has received the contract for the Hotel Congress Hall at B St. and New Jersey Ave, for the Congress Hall Hotel Co. It is to be a 10-story brick, stone and steel building of fireproof construction. Estimated cost, $350,000.

The Warwick Hotel Co. has invited plans from local and New York Architects for their new 10-story brick, stone and steel fireproof hotel at Penna. Ave. and 14th St. N. W. Estimated cost, $400,000.

Architects F. M. Day & Bro., 925 Chestnut St., Philadelphia, are preparing plans for a 3-story brick, stone and steel fireproof Hospital for Consumptives for the District of Columbia. Estimated cost, $100,000.

PORTSMOUTH, VA.—Wood, Donn & Deming, Archs., 808 17th St. N. W., Washington, D. C., are preparing plans for remodeling the U. S. Naval Hospital. A 4-story brick, stone and steel and fireproof building is to be constructed at a cost of $300,000.

SEEBERT, W. VA.—Bids are asked until Oct. 15, for the erection of edifice to be owned by the Methodist and Presbyterian churches.

RAYNE, LA.—Bids are asked until Oct. 13, for depot to be erected by the Opelousas, Gulf & Northeastern Railway Co. C. C. Genung, Opelousas, La., is Ch. Engr.

LOUISVILLE, KY.—Charles T. Ballard, Thruston Ballard, Thomas F. Smith, Thomas Bohannon, William Booker, Lewis Wymond and others have purchased 350 acres of land, which will be improved by the erection of clubhouse, polo grounds, golf course, tennis courts, swimming pool. About $100,000 will be expended.

ATHENS, OHIO.—Bids are asked by L. M. Jewett, Secy Board of Trustees, Ohio University, Athens, until noon, Oct. 18, for furnishing labor and materials to erect the women's dormitory and the installing of a central heating plant. Frank L. Packard, Columbus, Ohio, is Arch.

CANTON, OHIO.—Bids are asked until Oct. 15, by the Board of Public Service, for both heating by steam and lighting by electricity or gas, the city hall, old market house, police station, central engine house and the auditorium buildings. B. F. Faust is Clk.

BLOOMINGTON, IND.—Bids are asked by the Commissioners of Monroe County, until Nov. 8, for the construction of a modern courthouse. Wing & Mahusin, Ft. Wayne, are Archs.

INDIANAPOLIS, IND.—Bids are asked by the Commissioners of the Deaf and Dumb Institute, Room 81 State House, until noon, Oct. 17, for plumbing the new building. Rubush & Hunter are Archs.

Bids are asked by the Board of Commissioners for Southeastern Hospital for Insane, Room 81, State House, until Nov. 9, for all hardware to equip the various buildings according to plans and specifications. Foltz & Parker, Union Trust Bldg., Archs.

CHICAGO, ILL.—The Chicago & Northwestern Ry. Co. will build a station on the west bank of the Chicago River, to occupy several entire blocks between Canal and Clinton Sts. and Madison and Milwaukee Ave. The new station will contain 16 or 17 tracks, each capable of holding trains of from 12 to 15 cars. The approaches to the station will be an elevated structure, so that trains may arrive and leave at full speed, all street crossings being eliminated inside the city limits. Solid blocks of property for several miles have been purchased between the tracks and the new entrance, which will be used for industrial development. The work will cost about $20,000,000, and require about two years to complete. Edward C. Carter, Ch. Engr., is in charge of project.

CHICAGO, ILL.—D. H. Burnham & Co., Archs., Railway Exchange Bldg., Jackson Boulevard and Michigan Ave., have completed plans for a field house to be built in one of the new small parks at Grand Place and Princeton Ave., known as North Square, for the South Park Commissioners. Office in Washington Park, Cottage Grove Ave. and 57th St. J. F. Foster is the board's superintendent, and has charge of the work. It will cost $70,000 to $80,000. Bids are now being received.

Holabird & Roche, Archs., Monadnock Block, have prepared plans for a store and office building to be built on the vacant lot on the east side of Dearborn St., just north of the Real Estate Board Bldg., between Dearborn and Randolph Sts., for Lyman, Lyman & Lovell, represented by Aldis & Co. It will be ten stories, 110 x 40 ft., of fireproof steel construction, have pressed brick and terra cotta fronts, composition roof, hardwood finish, steam heat, electric light, marble and tile work, and is estimated to cost $200,000.

DECATUR, ILL.—The Pythian Home Committee, representing the Grand Lodge of the Knights of Pythias, E. R. Wright, secretary, Taylorville, Ill., invites architects to submit sketches, with elevations, for a Pythian home for widows and orphans to be built on 40 acres of land at Decatur, Ill. It is to be known as the administration or main building, have sufficient rooms and dormitories for present needs, and cost $100,000 to $150,000. The compensation for the successful architect will be such as the committee may consider reasonable. The committee will meet in Chicago on Nov. 7 to consider the sketches, and if any of them is approved, the same will be recommended to the Grand Lodge, which meets in Chicago on Nov. 8. It is desired that the sketches shall follow as nearly as possible the plans of the Pythian Home at Springfield, Ohio.

CHEYENNE AGENCY, S. DAK.—Bids are asked by the Commissioner of Indian Affairs, Washington, D. C., until 2 p. m., Oct. 31, for furnishing and delivering all the materials and labor required to construct and complete a day school plant at Green Grass Camp, Cheyenne River Reservation, S. Dak.

KANSAS CITY, MO.—The Grand Ave. M. E. Church is considering the erection of a combined church and office building to cost $400,000.

The contract will be let about Dec. 1 for building to be erected by the Young Men's Christian Association, for which Charles A. Smith, 722 Dwight Bldg., has prepared plans. It is to be six stories high, 96 x 132 ft., and of fireproof construction. Estimated cost, $225,000.

ST. LOUIS, MO.—A 16-story building is to be erected at Seventh and Olive Sts. at a cost of $160,000. William A. Gill holds the lease on the property.

LITTLE ROCK, ARK.—The City Council has passed an ordinance for the erection of a city hall to cost not less than $175,000. The building will be erected at Markham and Broadway on a site recently purchased by the city.

COLORADO SPRINGS, COLO.—Plans are being revised by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., for the postoffice and Government building at Colorado Springs. Estimated cost of building, $150,000.

DENVER, COLO.—O. L. Johnson, it is stated, has secured a site at Grand Ave. and 14th St., and will erect an 8-story fireproof apartment hotel, to cost about $250,000.

SEATTLE, WASH.—The Standard Furniture Co. is considering the matter of building an 8-story building to cost in the neighborhood of $250,000. Bids will be called for in the near future.

PORTLAND, ORE.—The local Y. M. C. A. proposes to erect a $400,000 building.

LOS ANGELES, CAL.—A. L. Haley, Arch., Henne Bldg., is preparing plans for an 8-story reinforced concrete building at Main and Second Sts., by Thomas Higgins. Estimated cost, $800,000.

LONG BEACH, CAL.—Dr. W. B. Scheurer probably will build a 5-story modern office building to cost $100,000, on the north side of West Second St., between Pacific and Pine Sts. Next to the newly completed Long Beack Bank building this structure is to be the largest business building in the city. J. W. Chalmers is Arch. It is to be a building 50 x 150 ft. of reinforced concrete.

SAN FRANCISCO, CAL.—Frank T. Shea, Arch., has completed plans for an 8-story steel Class A building for J. Parker Whitney. It is to be erected on Geary St. between Grant Ave. and Stockton St., at a cost of $500,000. The steel contract has been awarded to J. R. BOWLES, of Portland, Ore.

NEEDLES, CAL.—A depot and hotel, to cost $150,000, will be at once built by the Atchinson, Topeka & Sante Fe Ry. Co. here to take the place of the structure recently burned at that place. W. E. Hodges, Chicago, Ill., is Gen. Pur. Agt.

MONTREAL, QUE.—Most of the land has been secured on Dominion Square, Montreal, for the erection of a million dollar hotel, with furnishings to cost one-half million dollars. Work is expected to start on the first of May next. The parties are New Yorkers, and the chief promoter is Wm. H. Buckley, an Albany lawyer, who is son-in-law of James McShane, Harbor Master of Montreal. Mr. McShane has secured the options.

WATERLOO, QUE.—Bids are asked by George Magnen, Chn. School Coms., until Oct. 31, for the construction and the supplying of all material for an academy.

QUEBEC, QUE.—Ph. Beland, Clk. of Works, Post-office Bldg., Quebec, will furnish plans and specifications to parties desiring to tender for the construction of a defection house, detective apparatus, etc., at the Quarantine Station, Grosse Isle, Que. Bids should be addressed to Fred Gelinas, Secy Pub. Wks., Ottawa.

TORONTO, ONT.—Charles E. Ireson, who recently took over the Russell House on Yonge St., will commence building operations on a new 12-story hotel structure about May 1. The Russell House building will be used as an annex. This will be the largest hotel building in Canada.

Bids are asked by H. F. McNaughton, Secy Pub. Wks. Dept., Parliament Bldg., until noon, Oct. 13, for the erection of buildings for Normal Schools in Peterboro, Stratford and North Bay.

A new theater will be erected on the site of the present Star Theater on Temperance St. It will have double the seating of the present building. McIlpatrick & Son, Archs., of New York, are at work on the plans, and building will begin with the new year.

OTTAWA, ONT.—The Dominion Government is to erect two large public buildings here at a cost of $3,000,000. Hon. C. S. Hyman, Minister of Pub. Wks., has invited competitive designs for the new buildings, open to all Canadian Architects. Prizes amounting to $15,000 are being offered for the four best plans. Each of the new edifices will be of stone and five stories in height. Between them they will afford a floor space of 225,000 ft. The construction will of stone, steel and cement.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

CORNING, N. Y.—It is reported that a new reservoir will be built at Corning, and the old one will be repaired. J. F. Witmer, Buffalo, is Engr.; W. J. Heermans is Secy. Bd. Water Comrs.

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply, Albany, until 3 p. m., Oct. 15, for improvement of water supply and for engine foundations and appurtenances at the Quackenbush St. pumping station. Walter E. Melius is City Engr. Isidore Wachsman is Clerk of Board.

BUFFALO, N. Y.—Bids are asked by the State Commission in Lunacy, at Albany, until Oct. 24, for alterations to the water supply system at Buffalo State Hospital. T. E. McGarr is Secy. of Comn.; G. L. Heins is State Arch.

COHOES, N. Y.—We are officially advised that the DEANE STEAM PUMP CO., Holyoke, Mass., on Sept. 19, was awarded contract to install a triplex water power pump of 4,000,000 gallons capacity daily, at $4,260. Henry L. Shaver is Pres. Bd. Water Comrs.

YONKERS, N. Y.—Bids are asked until Nov. 8, by the Board of Water Commissioners, for installing a 6,000,000-gallon high duty pump, at the tube well pumping station. John J. Devitt is Pres.; A. W. Kingsbury is Clk. (Advertised, Engineering News.)

PERTH AMBOY, N. J.—Bids are asked until 8.30 p. m., Oct. 17, by the Board of Water Commissioners, at the City Hall, for supplying a quantity of water pipe. Adam Eckert is Clk.

SUMMIT, N. J.—Bids are asked until 8.30 p. m., Oct. 16, by the Common Council for laying about 7,650 lin. ft. of 14-in. c.-i. force pipe. Edward D. Rich is City Engr. For further information apply at Police Headquarters. Telephone No. 52 Summit. (Advertised, Engineering News.)

ROCHESTER, PA.—CHANDLEY BROS., Beaver Falls, Pa., have been awarded the contract for the construction of the new water-works and filtration plant at Rochester. The plant will have a pumping capacity of 600,000 gallons daily, and a large reservoir wil be constructed.

CONNELLSVILLE, PA.—The CONNELLSVILLE CONSTRUCTION CO., has been awarded the contract for erecting a big addition to the Connelsville Water Co.'s pumping station near Bluestone.

EDINBURG, PA.—We are officially advised that on Oct. 2 C. A. MALONE, of Hollidaysburg, Pa., was awarded contract, at $6,573, for constructing a gravity system of water-works at Ediburg. The Borough will furnish all pipe and specials. W. A. Wrenn is Chn.

PHILADELPHIA, PA.—Bids are asked until noon, Nov. 7, by Thomas L. Hicks, Dir. Dept. Pub. Wks., for constructing preliminary filters at Belmont station. (Advertised, Engineering News.)

HAGERSTOWN, MD.—The Washington County Water Co. on Oct. 3 awarded the contract to build a 10,000,000-gallon reservoir, on top of Evers' Hill west of Hagerstown, and to construct several new pipe lines, to the WHITMER CONSTRUCTION CO., of Philadelphia. The contract price was in the neighborhood of $300,000. The new reservoir, making the third owned by the company, will be oval, 460 ft. long, 260 ft. wide, with walls 15 ft. high. The walls will be 5 ft. thick at the bottom and taper to 2 ft. thick at the top. The earth embankment, which will be built against the outside of the wall, will be 16 ft. thick at the bottom and 6 ft. thick at the top. The cement will be 1 ft. thick in the bottom of the reservoir. About 5,000 barrels of cement will be used. A 16-in. c.-i. pipe line, 9½ miles long, will be laid from the Cavetown reservoir, at the foot of the mountain, to the Evers reservoir. A 12-in. pipe line, 9,000 ft. long, will be laid from the east end of Hagerstown to the new reservoir. About 2,000 ft. of 20-in. pipe will be laid from the Evers reservoir to the distributing system in Hagerstown. This will give a capacity of 5,000,000 gallons in 24 hours.

WASHINGTON, D. C.—Bids are asked until Oct. 27 by the Commissioners, District of Columbia, for furnishing and delivering a 42-in. water gate.

NORFOLK, VA.—It is reported that George W. Wright, Ch. Engr. of the Water Department, has submitted plans to the Board of Control for a reserve pump of 8,000 gallons per minute capacity against total head of 40 ft., duty guaranteed, and surface condenser for same located in main suction pipe; steam pressure, 90 lbs.

Bids are asked until 11 a. m., Nov. 3, at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing pumping machinery and accessories for Dry Dock No. 3, at navy-yard, Norfolk. Mordecai T. Endicott is Ch. of Bureau. Specifications are on file at office of Engineering News, New York.

BURLINGTON, N. C.—The city is reported to be considering the installation of water-works and sewerage system.

PORT ROYAL, S. C.—Bids are asked until 10 a. m., Oct. 23, at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for furnishing at the naval station, Port Royal, 1,000,000 gallons of fresh water. H. T. B. Harris is Paymaster-General, U. S. N.

COLUMBUS, GA.—It is reported that a system of water-works will be constructed here at an early date.

DADEVILLE, ALA.—We are officially advised a water-works system to cost $7,500 will be constructed here. The supply will be brought from a spring ¾-mile distant. Beside the necessary pipe there will be two electric pumps and a stand-pipe needed. J. B. Rylance is Engr.; John Lovelace is City Clk.

COLLINS, MISS.—This town has voted affirmatively the proposed $10,000 bond issue for enlarging water-works system.

OWENSBORO, KY.—It is reported that the city will issue $60,000 additional bonds for extending water mains. E. B. Shifley is City Engr.

WELLSVILLE, OHIO.—The EXCAVATING & CONSTRUCTION CO., of East Liverpool, Ohio, has been awarded the contract for constructing the new intake for the pumping station at Wellsville, at $7,492.

WILMINGTON, OHIO.—J. R. POINDESTER, of Cynthiana, Ky., has been awarded the contract for installing the new water-works here.

LANCASTER, OHIO.—Bids are asked until Oct. 31 by the Board of Public Service for furnishing 31,000 ft. of 8-in. pipe. George Cunningham is Clk.

DAYTON, OHIO.—The Board of Public Service has awarded contract to CHARLES L. ALLEN, of Marion, Ohio, for constructing high pressure water-works system. About $115,000 was appropriated by the City Council for this purpose.

CULVER, IND.—THE NATIONAL CONSTRUCTION CO., of South Bend, is reported to have secured the contract for constructing water-works at Culver, at $8,000.

DANVILLE, IND.—Bids are asked until Oct. 18 for constructing a pumping station at the city water plant. H. W. Dill is City Clk.

DANVILLE, IND.—Bids are asked until Oct. 18, by John W. Shaffner, Engr., for constructing a pumping station at Danville. H. M. Dill is City Clk.

DECATUR, ILL.—Bids are asked by Albert Leach, City Clk., until Oct. 29 for furnishing a compound condensing vertical or horizontal pumping engine of 6,000,000 gallons daily capacity, for the water-works. Daniel W. Mead is Consult. Engr., 738 First National Bank, Chicago.

RANDOLPH, WIS.—LANGSTADT & MEYER CONSTRUCTION & SUPPLY CO., Appleton, has been awarded contract for constructing a water supply system. J. O. Jones is Village Recdr.

WEST BRANCH, IOWA.—It is reported that G. H. Meredith, of Cedar Rapids, is now here surveying and making estimates for the proposed water-works. Thomas Farrell is City Clk.

GARDEN CITY, KAN. — RICHARD CLOUGH, of Colorado Springs, Colo., has been awarded a $100,000 contract to build reservoirs and ditches for the U. S. Sugar & Land Co., at Garden City. Mr. Clough expects to work 250 men and 150 teams this fall.

WILLISTON, N. DAK.—The Secretary of the Interior has closed a contract with JOHN H. DONOHUE, of St. Paul, Minn., providing for construction and completion of building for Station 1, power and pumping station, Williston Irrigation Project, N. Dak. The estimated cost of the work will be $13,886.

BUFORD, N. DAK.—The Secretary of the Interior, as has been stated previously in these columns, has awarded a contract to the D'OLIER ENGINEERING CO., 121 South Eleventh St., Philadelphia, Pa., for furnishing and installing pumping machinery for the Buford-Trenton Irrigation Project, N. Dak. The contract calls for the installation of three transformers of 300 KW. capacity, and eight motor driven pumping units of capacities of 16 and 30 cu. ft. per second under heads of 50 and 33 ft., respectively, with necessary electrical apparatus and water pipes, in pumping stations near Buford, N. Dak. The D'Olier Engineering Co. will receive $40,836 for the work. Now that the contract is let and the exact dimensions of the machinery are known, the engineers will determine on the design of the floating barge in which the intake pumps are to be mounted, and labor and materials will be secured for the construction of the barge. The water supply for this project is from the Missouri River, the slight gradient of which necessitates lifting the water direct from the stream by pumps. No long and expensive canal system will be required. An abundance of lignite fuel exists in the vicinity and it is proposed to generate power at the mines, and transmit it electrically to the several pumping stations for the Buford-Trenton and Williston projects. The first pumps will be placed on floating barges. These will, of course, accommodate themselves to changes not only in water level, but to the shifting of the stream, the water being conducted from the pumps on the barges through pipes with flexible joints to the main canal. Additional substation lifts will be introduced wherever required.

BILLINGS, MONT.—We are officially informed that a municipal water system will be constructed at Billings, to cost about $400,000. About one mile of 18-in. pipe and 3½ miles 20-in. pipe will be needed; also a pump of 3,500 gallons capacity a minute, one pair horizontal 500-HP., 42-in. turbines, concrete head gates and power-house, and three miles canal line, capacity 3,000 cu. ft. a second. The supply will be taken from the Yellowstone River. Henry Gerbarz is City Engr.

PLATTSBURG, MO.—This city has voted affirmatively the proposed $44,000 bond issue for the construction of water-works.

MARYVILLE, MO.—We have been officially advised that Burns & McDonnell, Dwight Bldg., Kansas City, Mo., have been retained to prepare plans, specifications and estimates for water-works and electric light systems at Maryville.

BENTON, ARK.—It is reported that J. F. Lee is considering the installation of water-works system, the supply to be obtained from an artesian well having a capacity of 300 gallons a minute.

CLARENDON, ARK.—The citizens of Clarendon are taking steps toward the formation of two improvement companies, one for the establishment of a system of water-works, the other for the establishment of a sewerage system. Petitions for the purpose will soon be presented to the City Council. It is estimated that the improvements will cost about $75,000.

MORRILLTON, ARK.—It is reported that J. C. WILSON, St. Louis, Mo., has contract to construct water-works for the Morrillton Water-Works Co.

FREDERICK, OKLA.—We are officially informed that, on Oct. 4, G. JAEGER, of Rich Hill, Mo., secured contract for constructing a system of water-works in this town, at $23,730. John Carr is Pres. Bd.; W. P. Bullock, 110 Monroe Ave., Kansas City, Mo., is Engr.

CLAREMORE, IND. T.—W. W. COOK & SONS, of Junction City, Kan., have been awarded contract for construction of water-works system, at $35,000, for Claremore.

NOWATA, IND. T.—We are officially informed that plans and specifications for systems of water-works and sewers are being prepared by Burns & McDonnell, Kansas City, Mo.

AULT, COLO.—We are officially advised that during November bids will be asked for constructing a system of water-works. The supply will be taken from wells and will be distributed by an air pressure plant. About two miles of pipe is necessary. Estimated cost, $30,000. G. H. Bradfield is Town Clk.

CREEDE, COLO.—Bids are asked until 7 p. m., Oct. 15, by Walter G. Boyle, Mayor, for constructing a gravity water system for Creede. Eva G. Stowe is City Clk.

PLATTEVILLE, COLO.—A storage reservoir that will furnish water for 40,000 acres of land lying northeast of Platteville is about to be constructed three miles east of this village. Funds are now being subscribed by farmers of that section and turned over to the Platteville Bank as trustee. The reservoir will be one of the largest single projects of the kind in Weld County, and will have a capacity of 500,000,000 cu. ft. of water. The location of the new reservoir is a natural depression in the country, where at wet season water now accumulates into a pond, known as Lake Platteville. At comparatively little cost a dam can be constructed across the lowest bank of this lake, and an outlet ditch cut. The value of the project, when completed, will be $250,000. The business is being done by Alexander Mead and E. G. Kindred, Greeley, handling the project for the farmers. The water will be used through the Buckers, Independent, Platteville and other large irrigation ditches. The supply will be had from the flood waters of a large drainage area in the vicinity of the basin.

SHELTON, WASH.—It is proposed to construct a concrete reservoir with a capacity of 100,000 gallons at Shelton. J. B. Weddell, of Olympia, is Engr.

POMONA, CAL.—It is reported that water-works will be constructed at Pomona, at a cost of $300,000 to $500,000. Harry Corlette, of Los Angeles, is interested in the matter. A. H. Hoebig, 627 Hellman Bldg., Los Angeles, is Consult. Engr.

BATTLEFIELD, SASK.—A water-works system will be installed at Battlefield. A building will be erected large enough to accommodate an electric light plant.

RED DEER, ALTA.—Paul Paradis, Civil Engr., Calgary, Alta., is reporting on a gigantic irrigation project 60 miles west of Red Deer.

MOOSE JAW, SASK.—We have been officially advised that, on Sept. 17, the following contracts were let in connection with installing a water-works system: Contract A, laying pipe line, FRED. FEY, Moose Jaw, $26,425; Contract B, constructing concrete dam, McNAIR & MARTIN, Moose Jaw, $15,720; Contract C, excavation per cu. yd., G. M. ANNABLE, Moose Jaw, $1.05. John D. Simpson is Secy.-Treas.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—It is reported that the contract for constructing the Stony Brook conduit, Section 1, has been awarded to METROPOLITAN CONTRACTING CO., 95 Milk St., at $40,965. John J. Leahy is Supt. of Sewers.

NEW BRITAIN, CONN.—The contract for constructing 1¼ miles of sewers and drains, for which bids were received Oct. 1, has been awarded to EVELINE BROS., of New Britain, for about $12,000, the city furnishing the pipe and castings. W. H. Cadwell is Engr. of Sewers.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Oct. 16, by Louis F. Haffen, Pres. of the Boro. of the Bronx, for constructing sewers in various streets throughout the borough.

Bids are asked until 3 p. m., Oct. 18, by the Park Board, Moses Herrman, Pres., for constructing sewers in Central Park.

NIAGARA FALLS, N. Y.—Bids are asked until Oct. 16 by the Board of Public Works for constructing sewers on Cleveland and Ferry Aves., and Porter Road, and for lowering sewers in certain alleys. Walter McCulloh is City Engr.

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply until 3 p. m., Oct. 15, for following work: Laying a vitrified stoneware pipe sewer in center of Swan St., from 100 ft. north of Colonie St., northerly to sewer in Van Woert St.; a vitrified stoneware pipe sewer in Prospect Pl., from Eagle to Philip St.; a sewer under carriageway of Clinton St., from Catherine St. to Beaver Creek sewer; vitrified stoneware pipe sewer under north sidewalk of Washington Ave., between Pine Ave. North and Manning Boulevard, the work including laying about 90 ft. of 6-in. pipe across Washington Ave. to connect with property on corner of Washington Ave. and Manning Boulevard. Walter E. Melius is City Engr.; Isidore Wachman is Clk. of Bd.

AMSTERDAM, N. Y.—Bids are asked until Oct. 17 for constructing storm sewers in Amsterdam. F. E. Crane is City Engr.

PLAINFIELD, N. J.—Bids are asked until 8 p. m., Oct. 22 (extension of time), by the Common Council for constructing sanitary sewers and pumping station. James T. MacMurray is City Clk.; Andrew J. Gavett is City Surv. (Advertised, Eng. News.)

PATERSON, N. J.—It is reported that FRANK PUGLIA, 20 Ellison St., has secured contract for constructing sewers in Virginia Ave. and East 23d St., and P. MURRAY for constructing the 23d Ave. sewer. H. J. Hardie is City Engr.

ERIE, PA.—PATRICK DOYLE has been awarded contract for constructing a number of 15 and 9-in. sewers. B. E. Briggs is City Engr.

NARBERTH, PA.—The bids received on Oct. 1 by Council for construction of about six miles of terra cotta pipe sewer were as follows: THEO. HARSCH, Narberth, $51,147; T. J. Shea, Jamaica Plain, Mass., $53,331; Berghans & Moffit, Quarryville, Pa., $84,696; George L. Watson, 1414 South Penn Sq., Philadelphia, $72,100, and John F. Hanlon & Co., Real Estate Trust Bldg., Philadelphia, $59,188. Engineers, Albright & Mebus, 908 Land Title Bldg., Philadelphia.

HARRISBURG, PA.—It is reported that J. S. BRADY, Harrisburg, has secured the contract for constructing the 18th St. sewer, at $10,689. James H. Fuertes is Consult. Engr., Harrisburg.

HOPWOOD, PA.—HIRLEMAN & GUARD, Connellsville, Pa., have been awarded the contract for the construction of a sewer, 1,300 ft. in length at Hopwood.

ALLEGHENY, PA.—Contracts to the amount of about $80,000 for sewer work and street improvements were let on Sept. 22. A. V. PURNELL and BOOTH & FLINN secured the greater part of the awards. Charles F. Kirschler is Mayor; John Swan, Jr., is Dir.

BALTIMORE, MD.—The Municipal Board of Awards, City Hall, has awarded contract to M. A. TALBOT & CO., Logansport, Ind., for the construction of about ten miles of storm-water drains at their bid of $152,952. This work will be done under supervision of the Sewerage Commission, Calvin W. Hendrick, Ch. Engr., American Bldg., Baltimore. Bids have also been submitted and contract will soon be awarded for an experimental testing plant to be located at Walbrook.

WASHINGTON, D. C.—The contract for constructing sewers in Seventh St., S. W., between E and G Sts., was awarded to E. G. GUMMEL by the Commissioners on Sept. 29.

CHARLESTON, W. VA.—The committee appointed to secure plans and specifications for sewer and street improvements has submitted a report to the City Council calling for an expenditure of $250,000 for proposed improvements. T. Chalkley Hatton, Wilmington, Del., is Des. Engr.

ELM GROVE, W. VA.—Improvements to the sewerage system at Elm Grove have been authorized by the Council, and contracts amounting to $18,000 will be awarded at once. J. E. Raub is the Engr.-in-Charge, and will award contracts.

ORANGEBURG, S. C.—It is reported that W. W. Hawes, City Engr., is making surveys and estimates for the construction of sewerage system.

DAWSON, GA.—Bids are asked until Nov. 6 for constructing sewer system. R. E. Bell is City Clk.

VICKSBURG, MISS.—Bids are asked until 7.30 p. m., Oct. 15, by the Mayor and Aldermen, for constructing sewer in China St., from Washington to Monroe St. H. J. Trowbridge is City Clk.

SPRINGFIELD, OHIO.—The Council has authorized the City Solicitor to prepare issue of $200,000 bonds for constructing high and low level and outfall sewers and disposal plant, recently designed by Snow & Barbour, Tremont Bldg., Boston, Mass.

GIRARD, OHIO.—ARMSTRONG, McGLAHLEN & DENNIS, of Warren, Ohio, have been awarded the contract for excavating for and constructing the sewers in District No. 1, at Girard.

CLINTON, IND.—JESSE ROBERTSON, 629 Chestnut St., Terre Haute, Ind., has been awarded the contract for the construction of a $25,000 sewer at Clinton.

ESCANABA, MICH.—Bids are asked until about Nov. 6 for constructing pipe sewers in Escanaba. T. J. Burke is City Clk.; D. A. Brotherton, Escanaba, is City Engr.

CHEBOYGAN, MICH.—Bids are asked until Oct. 12 for construction of 18-in. tile sewer in State St. George N. Case is City Clk.; M. E. Ward is City Engr.

ROCHELLE, ILL.—Bids are asked until 7 p. m., Oct. 17, by the Board of Local Improvements, for construction of about six miles of sewer and a septic tank.

ALBERT LEA, MINN.—Bids are asked until Oct. 25 for constructing sewer. They are to be placed in a 13-ft. excavation. William Berneck is City Engr.

ATCHISON, KAN.—The BOYD CONSTRUCTION CO., of Kansas City, Kan., on Oct. 1 was awarded contract by the city to construct sewer, which will drain the Challis addition, at $23,988.

GEDDES, S. DAK.—Contract for constructing a sewerage system in Geddes has been awarded to KINGSBURY & EDWARDS, Yankton, S. Dak. J. A. Nelson is City Audr.

DEVIL'S LAKE, N. DAK.—Contract has been awarded to JAMES KENNEDY, Fargo, N. Dak., for construction of the sewer system. Cost, about $14,000.

CLARENDON, ARK.—See under Water-Works and Irrigation.

SANTA MONICA, CAL.—The City Engineer has submitted an estimate of $63,000 for constructing main sewer at Santa Monica and an outfall at Hyperion.

LOS ANGELES, CAL.—Bids are asked until 11 a. m., Nov. 19, by the Board of Public Works, for constructing sewer outfall for city of Los Angeles. Horace B. Ferris is Secy. (Advertised, Engineering News.)

DALHOUSIE, N. B.—We are officially advised that MANN & BAXTER, of Campbellton, N. B., have contract to construct, complete, sewer in Dalhousie. Alexander J. Le Blanc is Town Clk.

RICHMOND, QUE.—It is the intention of the City Council to construct a complete sewer system in Richmond.

HAMILTON, ONT.—The Sewer Committee on Sept. 26 decided to expend $13,000 on deepening and improving the mountain drain.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

GREENLAND, N. H.—Bids are asked until 5 p. m., Oct. 16, by A. W. Dean, State Engr., at Concord, for grading and surfacing with gravel a portion of the Portsmouth Rd. in Greenland.

WATERBURY, CONN.—It is reported that the Board of Public Works has awarded the contract for paving North Willow, South Elm and Clay Sts., to WARREN BROS. CO., of Boston, Mass., at $7,875.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Oct. 16, by Louis F. Haffen, Pres. Boro. of the Bronx, for regulating, grading and paving various streets.

Bids are asked until noon, Oct. 15, for laying temporary slag or granite pavement upon concrete foundation on a portion of the newly made land east of the bulkhead wall at Rector St. section, North River.

PORT CHESTER, N. Y.—Bids are asked until Oct. 15 by the Board of Trustees for paving Traverse Ave.; also until Oct. 18 for brick paving on North Main St.

AMSTERDAM, N. Y.—We are officially advised that BAIRD & BAXTER, of Amsterdam, have been awarded contract, at $13,695, for paving Lyon St. F. E. Crane is City Engr.

Bids are asked by Henry A. Van Alstyne, State Engr., until noon, Oct. 19, for additional work on the Fonda Road, No. 152, in Montgomery County, and on the Mohawk River Turnpike in town of Amsterdam, Montgomery County.

ALBANY, N. Y.—Bids are asked until noon, Oct. 31, by Henry A. Van Alstyne, State Engr., for improving various public highways. (Advertised, Engineering News.)

ROCHESTER, N. Y.—It is reported that the Common Council has passed ordinances providing for paving a portion of Reservoir Ave.; also constructing cement walks on Sawyer St. Estimated cost of the improvement, $13,000 and $5,000, respectively.

KINGSTON, N. Y.—CORNELIUS CALLANAN, of Kingston, is reported to have secured the contract for constructing a state highway about seven miles in length, between Kingston and High Falls, at $57,000.

BUFFALO, N. Y.—Bids are asked until Oct. 18 by the Department of Public Works for paving portions of Urban, Beacon and Mystic Sts. F. G. Ward is Comr.

SCHENECTADY, N. Y.—The following contracts were awarded at a meeting of the Board of Contract and Supply on Oct. 1: Grading of Gerling St. from Van Vranken to Banker Ave., awarded to JOSEPH H. CLEMENTS, JR.; paving Furman St. between Becker St. and Robinson's line, awarded to the SCHENECTADY CONTRACTING CO., 332 State St.; sidewalks in Springfield Ave. between State St. and a point 900 ft. northerly, awarded to D. R. WOLCOTT. L. B. Sebring is City Engr.

NEW BRUNSWICK, N. J.—The STANDARD BITULITHIC CO., 253 Broadway, New York, N. Y., has been awarded contract for 18,300 sq. yds. of paving.

HOBOKEN, N. J.—Bids are asked until 8 p. m., Oct. 24, by the City Council, for grading, resetting curbs, relaying sidewalks and repaving roadway of Grand St., between First and Second Sts. Belgian block will be used for paving roadway. James H. Londrigan is City Clk.

ATLANTIC CITY, N. J.—The STANDARD BITULITHIC CO., 422 Union Bldg., Newark, N. J., has been awarded contract, at $266,550, for paving Atlantic Ave.

NEW GALILEE, PA.—The PITT CONSTRUCTION CO., Pittsburg, Pa., has been awarded the contract for constructing 7,000 ft. of macadamized road between New Galilee and Wampum, in Beaver County. The contract price was $17,510.

NEW CASTLE, PA.—The contract for paving and grading East St., New Castle, has been awarded to the A. W. WOODS CO., of this town, at $3,053.

PITTSBURG, PA.—Bids are asked until Oct. 23, by the State Highway Department of Pennsylvania, for constructing 15,384 ft. of road, extending from the north line of Oakdale Borough to a point in Steubenville Pike, in North Fayette Township. Joseph W. Hunter is State Highway Comr.

RALEIGH, N. C.—An election will be called to decide the question of issuing $300,000 in bonds for improving and macadamizing the public roads of Wake County.

JACKSONVILLE, FLA.—JOHN N. C. STOCKTON was awarded, by the Board of Public Works, the contract for laying 182,606 sq. yds. of brick paving at a price averaging a fraction over $1.60 per sq. yd. The contract for laying 47,484 sq. yds. of macadam paving was awarded to D. M. BAKER, whose bid for paving six streets with that material ranges from 66⅔ to 90 cts. per sq. yd. Philip Prioleau is City Engr.

ORLANDO, FLA.—We are officially advised that plans and specifications have not yet been completed for paving to be done. It is estimated that the paving, which will be of brick and cover 15,000 sq. yds., will cost $20,000. R. W. Hammond is Chn. St. Com.; A. B. Johnson is City Clk.

MONTGOMERY, ALA.—Bids are asked until noon, Oct. 15, for paving Montgomery St., with either vitrified brick, bitulithic or asphalt. R. S. Williams is City Treas. Allen R. Gilchrist is City Engr.

MERIDIAN, MISS.—The COLUMBUS CONCRETE CO., of Columbus, has been awarded contract to lay concrete sidewalk in the business district, at $11,000.

BROOKHAVEN, MISS.—For grading 21 miles of roadbed. (See under Railways: Natchez & Eastern R. R.)

SHREVEPORT, LA.—The City has let contract to R. N. McKELLAR, at $2.14 per sq. yd., for paving Marshall St. with brick, approximating 3,412 sq. yds.; also to S. W. LETSON for one year's work of laying concrete curb and sidewalk.

TOLEDO, OHIO.—The Board of Public Service is reported to have awarded the contract on Sept. 18 for paving a portion of Wakeman St. to WILLIAM McMAHON, at $6,831.

YOUNGSTOWN, OHIO.—Bids are asked until Oct. 15 by the Board of Public Service for furnishing material and repairing about 4,000 sq. yds. asphalt. G. T. Prosser is Clk.

LONDON, OHIO.—The BLUFFTON CRUSHED STONE CO., of Bluffton, Ohio, has secured the contract for paving with brick Ashland and Rochester Sts., at $5,252 and $5,465, respectively.

CINCINNATI, OHIO.—It is reported that the Board of Public Service on Sept. 26 awarded the following paving contracts: With brick, Providence St., M. FLYNN, $4,434; with brick, Beldare Ave., WILLIAM FOGARTY, $5,364; with boulders, Dayton St., JAMES AGNESS, $7,896. M. J. Keefe is Clk. Bd. Pub. Service.

CINCINNATI, OHIO.—The lowest bid received Oct. 8 by the Board of Public Service, for grading and improving Werk Road, was that submitted by FRED. HEUGEHOLD, Cheviot, Cincinnati, at $21,320. M. J. Keefe is Clk. Bd.; Charles N. Dannenhower is City Engr.

PORTSMOUTH, OHIO.—KELLY BROS. have secured contract to pave Market St. with Portsmouth block, cement curb and gutter, at $6,500, and Fifth St. with the same material at $12,831. Benjamin C. Bratt is City Engr.

TIPTON, IND.—Bids are asked until 8 p. m., Oct. 16, by the Common Council, for constructing brick roadway and cement sidewalk on East St. Clyde Porter is City Clk.

TERRE HAUTE, IND.—Bids are asked until 11 a. m., Oct. 20, by the Commissioners of Vigo County for grading and graveling Roads 6, 7 and 8 in Lost Creek Townships. Jerome W. Denehie is Audr. Vigo County.

EAST ST. LOUIS, ILL.—Bids are asked until noon, Oct. 13, by the Board of Local Improvements for grading and paving 22d St., from State St. to Illinois Ave. E. J. Eggmann is Clk. of Bd. W. J. Crocken is City Engr.

PONTIAC, ILL.—The City Council has authorized the purchase of five carloads of brick, to be used for constructing sidewalks in the Second Ward.

VANDALIA, ILL.—Plans are being made for paving Fourth, Fifth and Sixth Sts., between Gallatin and Main Sts.

EVANSTON, ILL.—Bids are asked until Oct. 14, by the Board of Local Improvements for macadamizing certain streets in Evanston. John T. Barker is Pres. of Bd.

MOLINE, ILL. On Oct. 1 the McCARTHY IMPROVEMENT CO. secured the contract for another paving job in the city of Moline. The contract calls for paving Eighth Ave. from 17th to 18th Sts., and 18th St. from Fourth to Eighth Aves. The pavement will be of asphalt and will cost $11,738. Clark G. Anderson is City Engr.

STREATOR, ILL.—At a meeting held Sept. 28, the Board of Local Improvements let paving contracts for several streets as follows: Shabbona St., from Bridge to Grant Sts.; contract let to JOHN S. BAER, at $14,500. Lundy St., from Sterling to Illinois Sts.; SMITH & SWARTZ, $1.37¼ per sq. yd. Wilson St., from Sterling to Illinois Sts.; SMITH & SWARTZ, $1.21½ per sq. yd.

RACINE, WIS.—The Council is considering ordinances for paving 25 streets or portions thereof, and for grading 19 streets. Estimated cost, $25,000.

OSHKOSH, WIS.—McCUGO & BRUETT have secured contract for construction of cement sidewalks for the Chicago & Northwestern Ry. Co., at Oshkosh. About 15,000 ft. will be laid.

DES MOINES, IOWA.—Bids are asked by the Board of Public Works, until 11 a. m., Oct. 18, for constructing about 6,734 sq. yds. of sheet asphalt pavements on West Fourth St. Bids will be received at the same time for constructing about 1,027 sq. yds. of asphalt pavement on Washington St.

Bids are asked until Oct. 20 by the Board of Public Works for paving West Fifth St., Des Moines.

DULUTH, MINN.—P. McDONNELL has been awarded contract for paving Commerce St., at $8,430. Thomas F. McGilvary is City Engr.

ST. JOSEPH, MO.—Two paving contracts were awarded Oct. 1 by the Board of Public Works. RACKLIFFE & GIBSON will pave Duncan St., from 20th to 24th Sts., with brick. The PHOENIX BRICK & CONSTRUCTION CO. will pave Lincoln St., from Ninth to Twelfth Sts., with brick.

OKLAHOMA CITY, OKLA.—The following bids are reported to have been received for paving a portion of Tenth St.: Memphis Paving Co., $39,616; Cleveland Trinidad Asphalt Paving Co., $37,546; Barber Asphalt Paving Co., $35,859.

ENID, IND. T.—The contract for 20 blocks of asphalt paving has been awarded to the WARNER-QUINLAN PAVING CO., 438 South Salina St., Syracuse, N. Y., at $225,000.

DALLAS, TEX.—The TEXAS BITULITHIC CO. has been awarded an additional contract for 2,575 sq. yds. of paving.

DENVER, COLO.—The COLORADO PAVING CO., 505 Quincy Bldg., Denver, has secured contract for paving and resurfacing streets in Denver, at $6,737.

ESTACADA, ORE.—Bids are asked by the City of Estacada until 7 p. m., Oct. 25, for grading and macadamizing Broadway from the north side of Third St., south, to the railroad track.

FORT WILLIAM, ONT.—The Council of Fort William has decided to lay granolithic sidewalks at a cost of $47,106. H. S. Hancock is Town Engr.

OTTAWA, ONT.—The BARBER ASPHALT PAVING CO. has contract to pave Dalhousie St., Ottawa, at $7,838.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

WORCESTER, MASS.—Plans have been prepared by Edward Topanelian, Arch., State Mutual Bldg., for the erection of a 4-story shop and store building, 66 × 20 ft., at Winter and Harding Sts., for F. Feingold.

PROVIDENCE, R. I.—It is reported that the Peace Dale Mfg. Co. will commence work on a $15,000 addition to its plant soon. The building will be of stone and will cover an area of 100 × 60 ft.

ALBANY, N. Y.—The contract for constructing the large manufacturing plant for the use of the National Tablet Co., on upper Broadway, has been awarded to FEENEY & SHEEHAN, 164 Montgomery St.

NIAGARA FALLS, N. Y.—We are officially advised that the Niagara Electro Chemical Co. will erect a large addition to its plant. It will be 60 × 208 ft., brick and steel construction. Plans have been prepared by Robert C. Fayfield, Arch., Ellicott Square Bldg., Buffalo, N. Y.

TRENTON, N. J.—Bids probably will be received Oct. 22 for the erection of the new plant for the Ajax-Grieb Rubber Co. Estimated cost, $25,000. Noted in issue of last week.

PITTSBURG, PA.—Plans have been prepared for the erection of a $200,000 2-story steel plant, 40 × 200 ft., for Mackintosh & Hemphill Co., foot of Twelfth St. and Allegheny River.

PHILADELPHIA, PA.—GEORGE KESSLER, Drexel Bldg., has been awarded the contract for a 1-story brick and steel, 60 × 140 ft., bottling plant, at Nos. 2523-25-27 North Broad St., for the Schlitz Brewing Co. Estimated cost, $50,000.

Milligan & Webber, Engrs., 520 Walnut St., have started plans for a 3-story reinforced concrete factory at 33d and Arch Sts., for A. H. Reid. Estimated cost, $50,000.

WAYNESBORO, PA.—The Geiser Mfg. Co. will have plans prepared for a 1-story brick and steel addition to its plant at this place. Power plant and special equipment will be installed.

HAGERSTOWN, MD.—The Brandt Cabinet Works have invited bids for the erection of a factory. It is to be a 4-story brick building, 60 × 150 ft.

WASHINGTON, D. C.—It is reported that the Carter Motor Car Co. will erect a $1,000,000 plant in this city. A. Gary Carter, Munsey Bldg., is Pres.

HAMPTON, VA.—The Citizens' Railway, Light & Power Co. is reported to erect a 50-ton ice plant either in this city or in Phoebus.

LOUISA, VA.—It is reported that a plant for the manufacture of brick from white and red clay will be established here.

MARTINSBURG, W. VA.—Consumers' Ice & Storage Co. is being organized with $35,000 capital stock to erect an ice and cold storage plant.

PARKERSBURG, W. VA.—The Graham-Bumgarner Co. has increased capital stock from $100,000 to $200,000 and proposes to erect an addition, five stories high, 40 × 50 ft., which will be equipped for the manufacture of men's heavy shoes. About $25,000 will be expended in building and equipment. T. E. Graham is Secy. and Treas.

RIVERSIDE (Wheeling Post Office), W. VA.—The Electrical Railway Equipment Co., of Cincinnati, Ohio, has purchased three acres of ground here on which, it is stated, a building, 25 × 250 ft., will be erected for the manufacture of electrical equipment. W. B. Stout, Cincinnati, is Gen. Supt.

LAGRANGE, GA.—Dixie Cotton Mills, the second oldest of LaGrange's four mills, is soon to be greatly enlarged.

CLERMONT, FLA.—The Clermont Ice Co., organized with D. G. Crenshaw, Pres.; William Kern, Vice-Pres.; C. H. Greenough, Secy.-Treas., will erect ice and cold storage plant with a daily capacity of [illegible] tons. A building, 24 × 70 ft., will be erected; about $6,200 will be invested.

LAKE CITY, FLA.—The Lake City Mfg. Co. has organized with J. C. Sheffield, Pres.; A. R. Wise, Vice-Pres., and F. [illegible] Bardin, Secy.-Treas. It has purchased building and is installing machinery for manufacturing knit goods, and later will install machinery for making paper boxes. A. D. Stratson is Mgr.

MONTICELLO, FLA.—E. B. Bailey is arranging for the establishment of plant to manufacture sand-lime brick; machinery to be operated by water power.

JACKSON, MISS.—The National Lumber Co. is reported as to expend $25,000 in improvements to ice plant, equipping for doubling the present capacity.

LOUISVILLE, KY.—The Colgan Gum Co., with offices at 321 Seventh St., has purchased a site on Breckinridge St., between Seventh and Eighth, running back 165 ft., and will erect a $25,000 factory. Plans have been prepared.

AKRON, OHIO.—B. F. Shaw, Gen. Supt. of the B. F. Goodrich Rubber Co., has awarded a contract to FRANK B. GILBRETH, of New York, for a reinforced concrete factory building and warehouse. The building is about 75 × 125 ft., five stories high and basement, and is designed to carry a load of 500 pounds a square foot. The cost will be about $75,000. The Osborn Engineering Co., of Cleveland, is the Design. Engr.

ASHLAND, OHIO.—The Faultless Rubber Co., of Akron, Ohio, will remove its plant at Akron to this city, and will erect a large addition to cost about $50,000.

CANTON, OHIO.—A new plant, including a main foundry building, 60 × 160 ft., a main machine shop, 60 × 140 ft., and a brick power house, 50 × 38 ft., will be erected here by the American Roll & Foundry Co., recently incorporated with J. B. Baird as Pres., William Gardner as Vice-Pres., Edward Langenbach as Treas., and D. A. Day as Secy., with a capital of $200,000. The Garrett-Cromwell Engineering Co., Cleveland, Ohio, is Engr. of the plant.

ALBANY, IND.—The Albany Automobile Co. has incorporated with a capital stock of $10,000. The company proposes to establish and equip a factory for the manufacture of automobiles, automobile parts and supplies. John L. Tully, James B. McNary and William L. Cary are directors.

BEDFORD, IND.—The Postal Auto & Engine Co. has incorporated with a capital of $20,000. The company will establish a plant to manufacture automobiles, engines and supplies. Sherman L. Keach and George P. Parks are directors.

EVANSVILLE, IND.—Plans have been prepared by Harris & Shopbell, Archs., The Rookery, 123 Fourth St., for the erection of a new factory, 400 × 160 ft., for the Standard Chair Mfg. Co.

The Hercules Body Mfg. Co., with capital of $50,000, has incorporated to construct a plant for the manufacture of all kinds of vehicles and parts. William H. McCurdy and F. M. Hillis are directors.

GREENSBURG, IND.—W. P. Skeen & Sons have let a contract to W. H. ISGRIGG & SON for the construction of a new foundry building and machine shop.

LAPORTE IND.—The Hobart M. Cable Co. is asking for bids for the erection of a large addition to present plant. Estimated cost, $15,000.

INDIANAPOLIS, IND.—The CAREY CONSTRUCTION CO. has been awarded a contract for the construction of a large brass foundry for Langenskamp & Wheeler. The building will be of concrete and brick. Estimated cost, $42,000.

The CENTRAL STATE BRIDGE CO., of this city has been awarded the contract for the structural iron work on the big repair shops of the Cleveland, Cincinnati, Chicago & St. Louis R. R., at Beech Grove, near this city.

TERRE HAUTE, IND.—The Modern Concrete Machine Co. has incorporated to construct, equip and operate a factory to manufacture concrete building block machines. R. L. Whaley and A. E. Harper are directors. Capital stock, $50,000.

LANSING, MICH.—The Michigan Screw Co. has been incorporated with $100,000 capital and will build a plant in this city to manufacture machine parts for automobiles and gas engines. M. R. Potter, Lansing, Secy.; Hugo Lumberg, of Detroit Screw Co., 246-248 Franklin St., Mgr.

NILES, MICH.—It is reported that the United States Furnace & Foundry Co., of Darlington, Pa., will erect a 2-story factory, 195 × 60 ft., here.

MILWAUKEE, WIS.—Plans have been prepared for the erection of a $30,000 brick and steel factory to be erected for the Carbolineum Wood Preserving Co., 128 Reed St. F. W. Anders, Arch., 533 Twelfth St.

Charles Crane, Arch., 89 Wisconsin St., has completed plans for a 7-story, solid brick factory building addition for the American Candy Co. It is to be 120 × 120 ft.

DAVENPORT, IOWA.—The Glucose Refining Co., with Lee S. Harrison, formerly superintendent of the Davenport plant, as Gen. Supt., and John F. Griffin as Gen. Mgr. of grain and real estate departments, will erect a plant 600 ft. long. Estimated cost, $400,000.

DULUTH, MINN.—A. R. and J. E. Merritt will erect a Puzzalean cement mill here.

CHATTANOOGA, TENN.—The Volunteer Disc Plow Co. proposes to increase its capital stock from $50,000 to $100,000. The plows of the concern are at present made at the plant of the Chattanooga Implement Works, at East Chattanooga, but it is understood that steps will soon be taken by the company to erect a plant of its own.

ST. LOUIS, MO.—The Condie-Neale Glass Co., Herbert D. Condie, Pres., will erect a large glass plant in North St. Louis at a cost of $500,000.

DALLAS, TEX.—The Fulton Bag & Cotton Mills, of Atlanta, have given out the contracts for the construction of their branch factory in this city. The building is to be five stories high, will cost about $80,000, and will produce bagging, bags and twine for supplying the Texas trade.

DUBLIN, TEX.—The committee appointed to formulate plans for the erection of the cotton mill met Oct. 8 in the office of J. H. Latham. It was decided to erect a mill to cost $150,000 instead of $100,000. The following committee of prominent farmers was appointed to canvass the county for the sale of stock: W. F. Gilbreath, Will Warren, Sam Bays and Frank Barnes. John H. Latham, R. W. Higginbotham and B. M. Utterback were appointed a committee to work the city for the same purpose.

OKLAHOMA CITY, OKLA.—Carl Porterfield, of Kansas City, Mo., will apply for franchise to install cold storage and steam heating plants. If franchise is secured, it is reported, a $200,000 plant will be erected.

COLORADO CITY, COLO.—It is reported that the Golden Cycle Mining Co. is to erect a 700-ton cyanide reduction mill here at a cost of about $500,000. John T. Milliken is Pres.

DENVER, COLO.—It is reported that C. A. Smith, of Boston, and Eastern capitalists, have organized the Flint Automobile Co., and will erect a factory which will cost about $600,000. Rufus W. Dean, Boston, Mass., is Pres.

SPOKANE, WASH.—The Rotary Engine Co. will erect a $15,000 factory here.

HULL, QUE.—The J. W. Woods Co., Ltd., has been granted an exemption of taxes for 10 years by the Hull City Council on construction and establishment of factory building and plant at an early date.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

CEMENT.—New York, N. Y.—Bids are asked until noon, Oct. 19, for furnishing and delivering about 10,000 bbls. of Portland cement. J. A. Bensel, Comr. of Docks and Ferries.

DREDGING PLANT.—Detroit, Mich.—Bids are asked until 2 p. m., Oct. 22, for hire of dredging plant for use in St. Mary's River, Mich. Col. Charles E. L. B. Davis, Engrs. (Advertised, Engineering News.)

SUBWAY.—Reading, Pa.—Bids are asked until 2 p. m., Oct. 17, for construction of the subway under the Philadelphia & Reading Ry. tracks at Spring St. Elmer H. Beard, City Engr. (Advertised, Engineering News.)

EMBANKMENT.—East St. Louis, Ill.—Bids were received on Sept. 15, and rejected, for building clay embankment. The lowest bid was 73 cts. a cu. yd. New bids are asked until noon, Oct. 20. Silas Cook, Pres. Bd. Local Improvements.

RUBBER FIRE HOSE.—New York, N. Y.—Bids are asked until 10.30 a. m., Oct. 19, for furnishing 2,500 ft. of 1½-in. and 50,000 ft. of 2½-in. rubber fire hose. Also for 10,000 ft. of 3-in. and 1,100 ft. of 3½-in. rubber fire hose. John H. O'Brien, Fire Comr.

DREDGING.—Philadelphia, Pa.—One bid was received on Oct. 6 by the Bureau of Yards and Docks, Navy Dept., for dredging and filling in, Navy Yard, League Island, Pa. It was submitted by Henry Steers, 17 Battery Place, New York, N. Y., at 24¾ cts. per yd.

REVETMENT WALL.—Owen Sound, Ont.—Bids are asked until Oct. 27 by the Department of Public Works (Fred. Gelinas, Secy.), Ottawa, for constructing a pile and concrete revetment wall. J. G. Sing, Resident Engr., Confederation Life Bldg., Toronto.

BREAKWATER.—Goderich, Ont.—Bids are asked until Oct. 20 by the Bd. Pub. Wks. (Fred. Gelinas, Secy.), Ottawa, for the completion of breakwater at Goderich. J. G. Sing, Resident Engr., Confederation Life Bldg., Toronto.

CRANES.—Washington, D. C.—Bids are asked until 10 a. m., Nov. 13, at the Bureau of Supplies and Accounts, Navy Dept., Washington, for furnishing at the navy yard, Mare Island, Cal., three electric traveling cranes, under schedule 201. H. T. B. Harris, Paymaster-Gen., U. S. N.

TUNNEL ENTRANCE.—Boston, Mass.—Bids are asked by the Boston Transit Commission until Oct. 23, noon, for constructing an entrance and exit to the Washington St. tunnel, at the corner of Essex and Washington Sts. The structure will be mainly of concrete and steel. B. Leighton Beal, Secy.

TUNNEL.—St. Paul, Minn.—The Twin City Rapid Transit Co. has let contract for constructing its tunnel through Selby hill here to GEORGE J. GRANT, 709 New York Life Bldg. There will be 32,000 cu. yds. of excavating, 8,400 cu. yds. of concrete, 312,000 lbs. steel rods and 386 tons of old steel rails. Cost, $800,000.

LIGHTHOUSE VESSELS.—New York, N. Y.—The Department of Commerce and Labor has let the contract for the construction of four steel steam single screw lighthouse vessels to the NEW YORK SHIPBUILDING CO., of Camden, N. J. The four vessels will cost $396,000, to be delivered at the lighthouse establishment on Staten Island.

DREDGING.—Washington, D. C.—Bids were opened Oct. 8, at the office of the Commissioners of the District of Columbia, for dredging to the extent of about 4,000 cu. yds., at Anacostia, D. C. The following bids were received: A. Dean & Co., Alexandria, Va., 32 cts. per cu. yd.; John Miller, 1301 G St., N. W., Washington, 37 cts. per cu. yd.

ATHLETIC FIELD.—New York, N. Y.—Two bids were received by C. B. J. Snyder, Supt. School Bldgs., New York City, on Oct. 8, for the general construction, etc., of an athletic field on Crotona Park North, opposite Prospect and Clinton Aves., Boro. Bronx. Charles Mead & Co., 299 Broadway, $11,620; P. Kieran, Williamsbridge, N. Y., $7,773.

DITCHES.—Storm Lake, Iowa.—Bids were received on Oct. 3 by the Board County Supervisors at the office of the County Auditor, for constructing ditches in Drainage Dist. No. 4, Sections 1 to 6, consecutively, requiring about 1,550,000 cu. yds. Contract was awarded to TIMOTHY FOOKEY DREDGING CO., of Fort Wayne, Ind. Estimated cost, $165,000.

REPAIRS TO WHARF.—New York, N. Y.—Bids are asked until 11 a. m., Oct. 16, for material and labor required in the repairs to wharves at Governor's Island, N. Y. H. Information furnished on application. Envelopes containing proposals should be indorsed "Proposals for Repairs to Wharves," and addressed to Constructing Quartermaster, Governor's Island, N. Y. H.

DREDGING.—New York, N. Y.—Bids were received on Sept. 28 as follows by Col. W. R. Livermore, Engrs., Army Bldg., 39 Whitehall St., New York, for dredging in Passaic River, N. J.: John & Joseph McSpirit, 118 Wayne St., Jersey City, N. J., 75c. per cu. yd., based on scow measurement; P. Sanford Ross, Inc., 277 Washington St., Jersey City, N. J., $1 per cu. yd., based on scow measurement.

CONDUIT, EMBANKMENT.—Boston, Mass.—Bids are asked until Oct. 29, 2.30 p. m., by the Charles River Basin Commission, 367 Boylston St., for building section 4 of the Boston marginal conduit and section 2 of the Boston embankment, requiring about 145,000 cu. yds. of earth fill, 170,000 lin. ft. of piles, 5,700 cu. yds. of masonry and 900 cu. yds. of stone masonry. Hiram A. Miller, Ch. Engr. (Advertised, Engineering News.)

DREDGING.—Detroit, Mich.—The Buffalo "Courier" states that the DUNBAR & SULLIVAN DREDGING CO., of Buffalo, has been awarded the contract for dredging the big trench under the Detroit River, in which the Michigan Central Railroad tunnel tubes will rest. Work has been started about 800 ft. from the Detroit side of the river. William Hardison, who will direct the work for the contractors, states that navigation will not be interfered with.

TELEPHONE SWITCHBOARDS.—Detroit, Mich.—The Home Telephone Co. awarded the following contracts recently: The DEAN ELECTRIC CO., of Elyria, Ohio, was given the contract for all switchboards and telephones for the new exchanges. The contract amounted to nearly $500,000. STROMBERG-CARLSON & CO., of Rochester, N. Y., and JOHN A. ROEBLING SONS' CO., of St. Louis, were awarded contracts for cables amounting to over $500,000.

MOORINGS.—Tompkinsville, N. Y.—Bids are asked until noon, Oct. 25, for furnishing and delivering moorings for vessels and buoys of the Light-House Establishment during the fiscal year ending June 30, 1907. The articles to be furnished embrace chain for light-vessels, chain for buoys, mushroom anchors, bridle chains, swivels for light-vessel and buoy chains, and light-vessel and buoy shackles. Capt. J. A. Rodgers, U. S. N., Inspector, Third Light-House District.

COAL-HANDLING PLANT.—San Quentin, Cal.—Bids were opened Oct. 3, at the Bureau of Equipment, Navy Dept., Washington, for a complete coal-handling plant at the U. S. Naval Coal Depot, California City Point, Cal. The following bids were received, none of them, however, being strictly upon government specifications: Hoshor-Platt Co., New York, $87,893; $86,705 if geared engines are used; $85,600 if geared engines and tubular boilers are used. Augustus Smith, New York, $190,000. Snare & Triest, New York, on bidder's specifications: Item 1, $149,300; 2, $101,000; 3, $122,900; 4, deduct $9,700; 5, deduct $22,000. Occidental Machinery & Engineering Co. and Delmar W. Smith, San Francisco: Bid A, $310,842, $287,811; Bid B, $273,658, $248,924. San Francisco Bridge Co., San Francisco, $275,000; $4,000 for each chute; $250,000 if steel wharf trestle not required.

DAM WORK.—Glendive, Mont.—The Secretary of the Interior has executed a contract with the PACIFIC COAST CONSTRUCTION CO., of Portland, Ore., for the construction and completion of the Yellowstone dam and accessory structures, Lower Yellowstone irrigation project, Mont. and N. Dak. The dam is to be a rock-filled, timber-cribbed structure, located about 18 miles northeast of Glendive, Mont., for the purpose of diverting the waters of Yellowstone into a canal extending about 80 miles down the west side of the river for the irrigation of 67,000 acres of land, two-thirds of which lie in Montana. The work requires about 500,000 ft. of lumber, 700 piles, 1,600 sheet piles, 11,000 cu. yds. of rock filling and riprap, and 80 tons of steel. The contracting company will receive $142,825 for its work, which, according to the terms of the contract, must be completed Feb. 1, 1909.

DAM, CANAL WORK.—Mitchell, Neb.—Bids are asked until 10 a. m., Nov. 1, by the Secretary of the Interior, at Mitchell, Neb., for the construction of a diversion dam and headworks on the North Platte River, in Nebraska, in connection with the North Platte irrigation project. The work will involve the excavation of about 100,000 cu. yds. of earth and rock, furnishing and placing in structures about 10,000 ft. B. M. of lumber, and construction of about 8,000 cu. yds. of concrete masonry. Work on the North Platte project has progressed rapidly during the season. The first 45 miles of the Interstate canal has been furnishing water at several places for irrigation, but preparations for receiving it were incomplete and full use of the canal will not be made until next season. The second section of the canal is under construction and surveys for the third 50 miles are being made. Contracts have been awarded on 14 schedules of the distributing system and the work on the laterals is already in progress. The Pathfinder dam is progressing favorably and it is expected that about 15,000 cu. yds. of masonry will be laid before cold weather forces suspension of work. It is hoped that water can be delivered to about 40,000 acres under this project during 1907. (Advertised, Engineering News.)

CANAL WORK.—Albany, N. Y.—Bids are asked by N. V. V. Franchot, Supt. Public Works, Albany, N. Y., until noon, Nov. 8, on Barge Canal contract No. 19, Erie Canal, for excavating the canal and protecting its sides, rebuilding bridges, constructing a masonry culvert, concrete-capped pile docking and other incidental details between the guard lock at Sulphur Springs, Station 6148, and the mouth of Ellicott Creek, Station 6806; length of contract, 12.46 miles; work located in Niagara County; Engineer's estimate is $1,038,245; and on Barge Canal contract No. 26, Champlain Canal, for dredging a channel in the Hudson River, between the south end of contract No. 27, Station 1245, at Fort Edward, and the north end of contract No. 1, Station 1286 + 33; length of contract, 0.76 miles; work located in Washington and Saratoga Counties; Engineer's estimate, $51,625.

Bids are also asked until noon of Nov. 9 on Barge Canal contract No. 25, Champlain Canal, for excavating the canal and protecting its sides, constructing locks No. 9 and No. 10, necessary spillways, power plants and appertaining structures, bridge substructures and approaches, retaining walls, roads, and other incidental details, between Station 356, about 0.6 miles north of Comstock P. O. and Station 1041 + 54 at Dunham's Basin Road; length of contract, 13 miles; work located in Washington County; Engineer's estimate, $1,849,831; and on Barge Canal contract No. 27, for excavating the canal and protecting its sides; constructing Locks No. 7, No. 8, and junction lock, necessary spillways, power plants and appertaining structures; a concrete arch bridge, bridge substructures and approaches, retaining walls, highways and other incidental details, between Station 1046 + 16, the south end of contract No. 25, at Dunham's Basin Road and the Hudson River at Fort Edward, Station 1245. Length of contract, 3.76 miles; engineer's estimate, $998,920; work located in Washington County. (Advertised, Engineering News.)

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

PILES.—Panama.—The Isthmian Canal Commission, Washington, D. C., has awarded to the SOUTHERN SAWMILL CO., New Orleans, La., contract for furnishing 4,000 piles of various sizes, at $33,642.

TRACK MATERIALS. — Panama. — The Isthmian Canal Commission has awarded to the UNITED STATES STEEL PRODUCTS & EXPORT CO., New York, contract under Circular 331, for furnishing 40,000 steel splice bars, 350,000 tie-plates, and 180,000 lbs. track spikes. It is not yet determined whether their bid f. o. b. Colon, or f. o. b. Baltimore will be accepted.

PROPOSED WORK.—Hawaii.—Lieut. J. R. Slattery, Corps Engrs., Young Bldg., Honolulu, advises us that the following construction work is planned for the ensuing fiscal year (July 1, 1906, to July 1, 1907): (1) New range lights, Honolulu Harbor, money available, $40,000; (2) first order light-house, Makapuu Point, Oahu, appropriation available, $60,000; (3) fortifications, amount available, $260,000.

ENGINEERING SUPPLIES. — Panama. — Bids are asked until 10.30 a. m., Oct. 23, at the office of D. W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, for a quantity of miscellaneous supplies, of which the following are of interest to engineers: Pipe fittings, lead pipe (50,000 lbs.), sheet lead (40,000 lbs.), cocks, throttle valves, milling cutters and mill ends, drill grinder, pillar crank shapers, bending rolls, flanging clamp, saw machine, rubber belting, water hose, cotton waste (50,000 lbs.), and miscellaneous hardware.

COAL-HANDLING PLANT.—Guantanamo, Cuba.—Bids were opened Oct. 3, at the Bureau of Equipment, Navy Dept., Washington, for a complete coal-handling plant at the U. S. Naval Coal Depot, Hospital Cay, Guantanamo, Cuba. The following bids were received, all more or less conditional: Hoshor-Platt Co., New York, $67,984, $66,810 if geared engine used, $66,605 if geared engines and tubular boilers used, $65,110 same as last bid, one instead of two trolley systems; Wellman, Seavor, Morgan Co., Cleveland, Ohio, $131,240; Robbins Conveying Belt Co., New York, $68,925, $67,800; Wm. L. Miller, Boston, $47,900, $44,000 extra if two bridges are required; Dodge Coal Storage Co., Philadelphia, $242,955, $66,790 for bridge tramway, $55,245 for additional bridge tramway; Snare & Triest Co., New York, on bidder's specifications, item 1, $67,600, 2, $67,600, 3, $58,000; Scofield Co., Philadelphia, bid A, $69,810, B, $58,960.

CEMENT, ETC. — Panama. — Bids were opened Oct. 2, at the office of D. W. Ross, Gen. Purchas. Officer, Isthmian Canal Comn., Washington, for miscellaneous engineering supplies under Circular 330, of which the following items are of interest to engineers: (a) 20,000 bbls. Portland cement, to be delivered by Jan. 15, 1907; (b) 3,525 pieces long leaf yellow pine, rough and dressed, various sizes; (c) 1,200 pieces white oak, rough. American Trading Co., New York, (a1) $41,450, (a2) $38,850; Atlas Portland Cement Co., 30 Broad St., New York, (a) $41,000; A. S. Bacon & Sons, Savannah, (b1) $9,307, (b2) $8,841, (c) $2,648; Alfred Hiller Co., New Orleans, (a) $51,000; Long Bell Lumber Co., Kansas City, Mo., (b) $7,079 f. o. b. New Orleans; Motley, Green & Co., 66 Broad St., New York, (a) $40,500; Panama Lumber & Trading Co., 1016 Hibernia Bldg., New Orleans, (b) $9,175; Southern Sawmill Co., New Orleans, (b) $9,839, (c) $2,478; Vulcanite Cement Co., Philadelphia, (a) $55,000; Wouldham Cement Co., by Carr Bros., agents, 32 Broadway, New York, (a1) $41,000, (a2) $51,500, foreign goods; Chicago Lumber & Coal Co., St. Louis, telegraphic bid, (b) $10,834, (c) $2,368.

FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ——, ——. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office the matter may wholly escape attention.)

CANAL.—Bulgaria.—The Minister of War has available 1,360,000 francs (about $270,000) for construction of a canal connecting the Black Sea with Lake Devna. This work will be undertaken by the same company, probably, which has in hand the construction of Varna harbor.

PORT WORKS.—Spain.—Bids are asked until Oct. 30 at the offices of the "Junta de Obras del Puerto, Cadiz," for carrying out improvement and dredging works at the port of Cadiz. The cost of the work is estimated at $1,[illegible]2,733. A deposit of $17,000 is required to qualify any tender. Local representation is necessary.

RAILWAY WORK.—Belgium.—Bids are asked until Oct. 24 by the "Societé nationale des chemins de fer vicinaux," at the offices of the "Societé" at 14 Rue de la Science, Brussels, for the construction of further sections of the railway from Hannut to Huccorgne on the local railways from Hannut to Vinalmont and Burdinne to Huy. The estimated cost of the work is 185,219 frs. ($37,000), and a deposit of 18,000 frs. ($3,500) is required to qualify any bid.

RAILWAYS, ETC.—Cape of Good Hope.—Two acts have been passed: (1) Providing for the construction, equipment, maintenance, etc., of certain lines of railway in the Colony, of a total length of 499 miles, at a cost of about $10,000,000; (2) authorizing the raising of a loan for the purpose of new and additional railway works, including the doubling of a portion of line (about $270,000) locomotive workshops (about $125,000), ice-making machinery (about $245,000), electric lighting ($245,000), etc.

COMPETITION FOR MOVABLE DAMS.—Bohemia.—Emil Timmler, Consult. Engr. to Austrian Government, announces that the attention of American engineers is requested regarding designs for movable dams for the rivers of Bohemia and Galicia. An international competition has been opened with the object of obtaining some type of movable dam which can be kept in use during the winter, so as to create a water-power available at all ordinary times. The rivers are subject to high floods and to ice, and extremes of temperature are also met with. For further details, data as to general conditions, lift, span, etc., address Mr. Emil Timmler, III Plass Gasse No. 616, Prague, Bohemia.

GARBAGE REDUCTION.—Spain.—The City Council of Barcelona has opened a competitive congress for machinery and processes for the extraction and utilization of garbage, rubbish, street sweepings and the sprinkling of streets. The machinery and processes should be of the largest and most approved inventions. The inventor to whom the first price shall be awarded must convey or cede the patent rights to the city of Barcelona. The awards are: 10,000 pesetas ($1,930) for the first prize; 7,000 pesetas ($1,350) for the second, and 3,000 pesetas ($580) for the third. Proposals are to be submitted to the Secretaria del Ayuntamiento, Barcelona, before noon, Dec. 1. (Advertised, Engineering News.)

CIVIL SERVICE EXAMINATIONS

ENGINEER AND CARPENTER.—Nebraska.—The U. S. Civil Service Commission announces an examination on Oct. 24, to secure eligibles to fill a vacancy in the position of Engineer and Carpenter, at $660 a year, in the Indian Service at Winnebago, Neb., and vacancies as they may occur in any branch of the service requiring similar qualifications. As no eligibles were secured as the result of the examinations announced for April 18 and June 13 for this position, qualified persons are urged to enter this examination. Application Form No. 1093.

CHIEF, WATER BUREAU.—Philadelphia, Pa.—A competitive examination for the position of Chief of the Bureau of Water, of the city of Philadelphia, will be held at Room 875 City Hall, Philadelphia, on Oct. 31, at 10 a. m. Applicants must be citizens of the United States, 30 years of age or over. Must be competent civil engineers, with executive capacity, and preferably with experience in the conduct of water-works. Must have technical knowledge equivalent to that required for graduation from a technical school of good standing. Need not be residents of the city of Philadelphia. Further particulars will be furnished upon written request to the Civil Service Commission, Philadelphia. (Advertised, Engineering News.)

TOPOGRAPHIC AND CARTOGRAPHIC DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Oct. 30-31, to secure eligibles to fill three vacancies in the position of Topographic and Cartographic Draftsman, at $1,000 a year each, in the Office of Chief of Staff, War Department, and vacancies as they may occur in any branch of the service requiring similar qualifications. Age limit, 20 years or over on the date of examination. Competitors who attain a rating of less than 70 on the subject of drawing and lettering will not be eligible for appointment. Com-

petitors should bring to the examination room drawing instruments, rules, scale, ink, and drawing board not less than 18 inches square. Application Form No. 1312.

CLERK-DRAFTSMAN.—Washington, D. C. —The U. S. Civil Service Commission announces an examination on Oct. 30-31, to secure eligibles to fill the following-named vacancies in the position of Draftsman in the offices of the surveyors-general at the places named, at $4 a day each, and similar vacancies as they may occur: One vacancy each in Arizona, Minnesota, Boise, Idaho, and Cheyenne, Wyo., and three vacancies at Reno, Nev. Persons who pass this examination will be eligible for appointment to clerical or draftsman positions in the Land Office Service only in offices outside of the District of Columbia. Competitors should bring for use on the second day drawing board not less than 15 inches square, ink, pens, and such drawing instruments as they consider necessary. Age limit, 20 years or over on the date of the examination. Application Form No. 1312.

ENGINEER.—Oklahoma.—On Oct. 17, an examination will be held by the U. S. Civil service Commission to fill a vacancy in the position of Engineer (male), at $720 a year, in the Indian Service at Arapahoe, Okla., and vacancies as they may occur in the Indian Service in the engineering positions indicated below. For the specific vacancy mentioned applicants will be examined in Branch 5. Owing to the widely varying conditions in the various schools and agencies of the Indian Service, general engineering examinations will be given under the following separate branches. An applicant may take one or more than one of these in his discretion. The prospects of appointment will be increased by successfully passing more than one of the branches indicated. Applicants should fully indicate in their applications the particular branch or branches in which they desire to be examined, and should state as definitely as possible the experience they have had which would tend to qualify them in the branches selected. The ratings in each branch will be determined separately, and if more than one branch is taken the ratings will be combined into a general average with the relative weights indicated opposite each branch. Salaries, $480 to $1,000 a year. The majority of the appointments, however, are made at salaries of $720, $840, and $900 a year. Age limit, 20 years or over on the date of the examination. Application Form No. 1093; only one form being required in case more than one branch is selected. The branches are as follows: (1) Steam engineering, (2) electrical engineering, (3) heating, (4) refrigeration, (5) gas and gasolene engines, (6) hydraulics.

INDUSTRIAL NOTES.

THE BRISTOL COMPANY announces that it has opened a branch office at 753 Monadnock Building, Chicago.

THE PASSAIC STEEL COMPANY has established an office at 170 Broadway, New York, in charge of Mr. H. B. Thomas.

THE NEW ENGLAND BOLT AND STEEL CO. announces the moving of its Boston office to its factory on Bowdoin St., Everett, Mass.

POWER SPECIALTY COMPANY announces the opening of another branch office in the Land Title Building, Philadelphia, in charge of W. E. Dowd, Jr.

THE H. W. JOHNS-MANVILLE COMPANY reports a contract for covering the buildings of nearly the entire plant of the North American Manufacturing Company, at Newell, W. Va., with its "JM" asbestos roofing.

THE RAMAPO IRON WORKS are building a new dam and power-house with general hydraulic betterment. The engineer in charge is John C. Temple, of Philadelphia, and the contractors are the Ambursen Hydraulic Construction Co., of Boston. The work is to be pushed to completion this season.

THE LOMBARD-REPLOGLE ENGINEERING CO., manufacturers of water-wheel governors, are erecting a 7-story factory building with over 100,000 sq. ft. of floor space at Akron, Ohio, for the production of their new type of governor. The building is expected to be ready for occupancy about Oct. 15.

THE MARION STEAM SHOVEL COMPANY reports that it received orders for 28 machines as the result of bids asked for work in the Mesaba Iron Range. Recent orders have been received from the Republic Iron & Steel Company, and many others, making an average shipment of nearly 40 machines each month.

THE CENTRAL INSPECTION BUREAU, 17 State St., New York, has been engaged to inspect a number of cars for J. G. White & Company, which are being built at the Niles Car Manufacturing Company's works, Niles, Ohio. It is at present inspecting a number of interurban cars for the Brooklyn Rapid Transit Company, and the Philadelphia Rapid Transit Company.

THE STANDARD ROLLER BEARING COMPANY has purchased the entire plant and real estate of the Pennsylvania Iron Works Company. In addition to the above large purchase, it has just completed a large crucible steel casting plant, an iron and brass foundry and a drop forge plant. A large five-story reinforced concrete building is now under construction, which, when added to the already large plant, will make it the most complete in the United States for the manufacture of ball and roller bearings and automobile axles.

THE CLINTON WIRE CLOTH COMPANY, Mr. Albert Oliver, Mgr., has moved from 150 Nassau St., to more commodious quarters in the Metropolitan Life Building, 1 Madison Ave. It is largely due to Mr. Oliver's ability, backed by the excellence of the products which he is handling, that Clinton Electrically Welded Fabric and Clinton Wire Lath have become two of the best known and most widely used building materials among the leading architects, engineers, builders and contractors. The scope of the Clinton products is shown by the following, representing a few of the more important structures in which they have been used throughout: Electric power-house of the New York Central Railroad at Yonkers, N. Y.; plant of the St. Croix Paper Co., Spragues Falls, Me.; Hamburger Building, Sonneborn Building, Fish & Produce Markets, Baltimore, Md.; City Hall, Newark, N. J.; new plant of the American Can Co.; new plant of the Merchants' Refrigerating Co.; Hermitage Building; Tichenor-Grand Company's stable; Bliss residence; addition to the Long Acre Hotel, New York; U. S. Naval Coal Station at Sangley Point, Cavite, P. I.; Harbor freight sheds at Montreal; new plant of the Singer Manufacturing Co. at St. Johns, Quebec; Well-Fargo Building, Portland, Ore., and the Fairmount Hotel, San Francisco, Cal.

THE BUFFALO FORE COMPANY reports the following as a partial list of recent sales for its heating and ventilating system: State Normal School, Platteville, Wis.; St. Paul Auditorium, St. Paul, Minn.; Iowa State College, Ames, Iowa; Standard Steel Car Co., Butler, Pa.; New York Central & Hudson River Railroad Co., for inspection shop at North White Plains, N. Y., one 160-in. fan 150 ins. wide, heaters containing about 1¼ miles of 1-in. pipe; for inspection shop at Croton, N. Y., three 170-in. fans 180 ins. wide, heaters containing about 3¼ miles of 1-in. pipe; and the Warsaw High School, Warsaw, N. Y.

THE MORGAN CONSTRUCTION COMPANY, of New York, reports five successive orders within eight months from the Pittsburg Reduction Company for gas producers. For several years the Pittsburg Reduction Company has been using the hand-fed type of producer and now that it has had an opportunity to compare results with the automatic Morgan producers it has decided to use nothing else. Additional large contracts have been made for the following installations: The Pennsylvania Railroad Company for its forge shops at Altoona, Pa.; the Union Carbide Company, Chicago, Ill.; the American Carbolite Company, West Duluth, Minn., and the Singer Manufacturing Company, Elizabeth, N. J.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 130.

PUMP.

Yonkers, N. Y.

Sealed proposals will be received by the Board of Water Commissioners of the city of Yonkers, New York, until November 8th, 1906, for the furnishing, delivery and erection at the Tube Well Pumping Station, of one (1) Six Million Gallon High Duty Pump to work against a pressure of 110 pounds with 150 pounds steam.

Copies of specification can be procured by application to the Board of Water Commissioners.

Bidders must furnish satisfactory evidence of their ability to build the class of machinery required.

A certified check in the sum of five per cent. of the amount of bid must accompany each proposal.

Proposals to be addressed to the Board of Water Commissioners, Yonkers, New York, and endorsed "Proposals for Pump For Tube Well Pumping Station."

The Board of Water Commissioners reserves the right to reject any and all bids.

JOHN J. DEVITT, President.
A. W. KINGSBURY, Clerk. 15-1t

COMMONWEALTH OF MASSACHUSETTS,
Charles River Basin Commission.

Sealed proposals will be received at the office of the Charles River Basin Commission, 367 Boylston Street, Boston, Mass., until 2.30 o'clock P. M. of Monday, October 29, 1906, for building Section 4 of the Boston Marginal Conduit and Section 2 of the Boston Embankment, requiring about 145,000 cu. yds. of earth fill, 170,000 lin. ft. of piles, 5,700 cu. yds. of concrete masonry and 900 cu. yds. of stone masonry.

The Embankment will be made along the Boston side of the Charles River, between Berkeley and Gloucester Streets, a distance of about 2,400 feet, and will be about 100 feet wide.

Pamphlets containing further information for bidders, forms of proposal, contract and specifications will be ready about October 11th, and will be mailed to contractors who apply to the Chief Engineer, or may be obtained at his office, No. 367 Boylston Street, Boston, where also plans may be seen. The printed form must be used in making proposals.

The Commission reserves the right to reject any or all proposals and to accept the proposal deemed best for the Commonwealth. HENRY S. PRITCHETT, chairman; HENRY D. YERXA, JOSHUA B. HOLDEN, Charles River Basin Commission; HIRAM A. MILLER, Chief Engineer; WILLIAM S. YOUNGMAN, Secretary. 15-2t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 9, 1906.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 8th day of November, 1906, and then opened, for the construction complete of the U. S. Quarantine Buildings and Wharf, House Island, Portland, Maine, in accordance with drawings and specification, copies of which may be had at this office, or at the office of the Custodian of the U. S. Quarantine Station, Portland, Maine, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 15-2t

SEWERS.

Greenville, Ala.

Sealed bids will be received until 2 p. m., Monday, Nov. 5th, for furnishing all materials and constructing 3 to 4 miles of Pipe Sewers, with the necessary Manholes and Flush Tanks, at Greenville, Ala.

Plans may be seen at the office of Arthur Pew, Consulting Engr., Atlanta, Ga., and at the office of the City Clerk, at Greenville.

For specifications address

THOS. W. PEAGLER, City Clerk,
15-2t Greenville, Ala.

SEWERS.

Bainbridge, Ga.

Sealed bids will be received until 2 p. m., Thursday, Nov. 8th, for furnishing all materials and constructing 8 or 9 miles of pipe sewers with the necessary Manholes, Flush Tanks, etc., at Bainbridge, Ga.

This soil is unusually favorable for trenching. Plans and profiles may be seen at the office of Arthur Pew, Consulting Engineer, Atlanta, Ga., and at the office of the City Clerk, at Bainbridge.

For specifications, address

E. A. WIMBERLY, City Clerk,
15-3t Bainbridge, Ga.

OUTFALL SEWER.

Los Angeles, Cal.

Notice is hereby given inviting sealed bids for the construction and completion of that portion of the Proposed Outfall Sewer of the City of Los Angeles, hereinafter described, in accordance with the original plans, specifications and profile of said sewer on file in the office of the Board of Public Works of said city.

The portion of said Proposed Outfall Sewer, above referred to, is an elliptical brick sewer 6 feet 1 inch, by 5 feet in size (inside measurement), and is that portion of Section 3 of said sewer, extending from Station No. 242 plus 47.25 to Station No. 316 plus 20, and is approximately 7,375 feet in length, as shown upon the aforesaid plans, specifications and profile. The contractor is to furnish all the materials, except the brick and cement, and to do all the work, required to be furnished and done in and about the construction and completion of said portion of said sewer.

Reference is hereby made to the aforesaid plans, specifications and profile for full details and description of said work and materials.

Each bid shall be accompanied by a check certified by a responsible bank, payable to the order of the President of said Board of Public Works, for an amount equal to twenty per cent. of the aggregate sum of the bid, or by a satisfactory bond for the said amount and so payable, as a guarantee that the bidder will enter into a contract for the performance of said work and the furnishing of said materials, if the same is awarded him. All bids must be filed with said Board of Public Works at or before eleven o'clock a. m. of Monday, the nineteenth day of November, 1906.

Forms for making bids will be furnished on application to the Secretary of the Board of Public Works of Los Angeles, California.

No bid will be considered unless the same is accompanied by such certified check or bond.

The successful bidder shall, within ten days after the contract is awarded to him, enter into a contract in writing for said work, and enter into and deliver to the Secretary of said Board, a bond in the sum of one hundred thousand dollars ($100,000), conditioned for the faithful performance of the contract, and executed by the contractor, and by a responsible surety company, or by two or more sufficient sureties approved by said Board.

Said work shall be commenced by the contractor within ten days after the execution of the contract, and shall be fully completed within twelve months after the execution of such contract.

Said Board of Public Works reserves the right to reject any and all bids.

Dated the 2d day of October, 1906.

By order of the Board of Public Works of the City of Los Angeles.

HORACE B. FERRIS,
Secretary of the Board of Public Works of the City of Los Angeles. 15-2t

GARBAGE DISPOSAL.

Barcelona, Spain.

The City Council of Barcelona, Spain, has opened a competitive congress for machinery and processes for the extraction and utilization of garbage, rubbish, street sweepings and the sprinkling of the streets. The machinery and processes should be of the latest and most approved inventions. The inventor to whom the first prize shall be awarded, must convey or cede the patent rights to the City of Barcelona. The awards are 10,000 pesetas for the first prize, 7,000 pesetas for the second and 3,000 pesetas for the third. Proposals should be submitted on or before 12 o'clock noon, December 1, 1906.

For further information and particulars, address SECRETARIA DEL AYUNTAMIENTO, Barcelona, Spain. 15-2t

Department of Public Works,
Bureau of Filtration,
Office, 710 City Hall,
Philadelphia, Oct. 9, 1906.

Sealed proposals, endorsed "Bids for Preliminary Filters," and addressed to the undersigned, at the office above mentioned, will be received until 12 o'clock noon, on Wednesday, November 7th, 1906, for Contract No. 89 —Preliminary Filters at Belmont Station.

Specifications, drawings, and blank forms upon which bids must be made can be obtained at Room 712, City Hall, Philadelphia.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81, West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

THOMAS L. HICKS,
15-2t 13-1t Director.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., October 6, 1906.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 30th day of October, 1906, and then opened, for the installation of an electric passenger elevator and approaches to replace freight elevator on Broadway side of the U. S. Post Office and Court House, New York, N. Y., in accordance with the specification, copies of which may be obtained at this office, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 15-2t

Situations Wanted

ENGINEER (29), ten years' experience, including workshops, designing, office and selling, desires position as traveling salesman. Address "R. A. 15," Engineering News, New York. 15-1t

SITUATIONS OPEN

WANTED—Men to fill six locating parties on railroad in South America; salaries from $100 to $350 per month, and expenses. Address, with references, c/o C. HARTLEY, 76 N. Fair Oaks Ave., Pasadena, Cal. 15-1t

DRAFTSMAN—Preferably with shop experience and knowledge of traction, steam shovel or similar work; to make complete working drawings and lay out simple engines and locomotive valve gear. State salary. Address "S. A. 15," Engineering News, New York. 15-6t

CHIEF OF WATER BUREAU.
City of Philadelphia.

A competitive examination for the position of Chief of the Bureau of Water, of the City of Philadelphia, will be held at Room 875, City Hall, Philadelphia, on Wednesday, October 31, at 10 A. M.

Applicants must be citizens of the United States, 30 years of age or over. Must be competent civil engineers with executive capacity, and preferably with experience in the conduct of water-works. Must have technical knowledge equivalent to that required for graduation from a technical school of good standing. Need not be residents of the City of Philadelphia.

Blank forms of application may be had upon the personal request of the applicant at the office of the Civil Service Commission, Room 875, City Hall, Philadelphia, and must be filed on or before Tuesday, October 30.

Further particulars will be furnished upon written request.

CIVIL SERVICE COMMISSION,
15-1t CITY OF PHILADELPHIA.

Miscellaneous Wants

WANT TO RENT

A Steam Shovel

for four or five months' work; also crew for same. 15-1t

Raleigh and Pamlico Sound R. R. Co.

15.

pain.
in, has
chinery
utiliza-
eepings
he ma-
latest
aventor
warded,
to the
10,000
tas for
third.
before

iculars,
MIEN-
15-2t

Works,
ation,
Hall,
1906.
r Pre-
he un-
d, will
Tedness-
No. 89
ion.
forms
be ob-
elphia.
accom-
olicitor
quiring
ed in
d May
implied

e right
deem

S,
ctor.

of the
D. C.,
be re-
M. on
then
ic pas-
replace
of the
New
speci-
tained
Super-
YLOR.
15-2t

d

ce, in-
e and
sales-
eering
15-1t

EN

ies on
from
enses.
IART-
adena,
15-1t

xperi-
steam
mplete
le en-
State
eering
15-6t

sition
City
875.
Octo-

nited
st be
e ca-
n the
tech-
uired
l of
f the

had
icant
sion,
must
0.
upon

IA.

ts

rew
5-1t
o.

CONSTRUCTION
Plans and S
List of Contr
Railways
Electric Rail
Light and P
Bridges
Buildings
Water Supply
Sewerage
Garbage Disp
Streets and
Manufacturin
Miscellaneou
Contract Pr
U. S. Posses
TRADE PUBLI
PROPOSALS

C

PLANS AN

The following
ding Sheets (B.
gineering News
York:

Bids
close.
Oct.
*20—Bridge..W
*29—Conduit, e
Nov.
1—Engineerin
*1—Dam, etc
3—Pumping
*15—Dam, exc
*15—Canal, da

*Work adver

LIST

LIGHT

Bids
close.
Oct. 20. Light
Oct. 20. Gas h
Adver
Oct. 25. Equip
Oct. 29. Equip
Adver
Nov. 1. Lighti
Nov. 2. Appar

Oct. 18. Bridge
Oct. 19. Bridge
Ad
Oct. 19. Bridge
Oct. 19. Bridge
Oct. 20. Bridge
Oct. 20. Steel
Advertis
Oct. 22. Bridge
Oct. 22. Bridg
Oct. 22. Bridg
Oct. 22. Bridge
Oct. 22. Bridg
Oct. 22. Bridge
Oct. 25. Bridg
Oct. 26. Bridg
Oct. 26. Bridg
Oct. 29. Bridg
Oct. 29. Bridg
Oct. 31. Bridg
Nov. 5. Bridg
Nov. 6. Bridg
Adve
Nov. 8. Bridg
Nov. 20. Bridg
Adve

Oct. 18. Dorm
Oct. 18. Foun
Oct. 19. Engi
Oct. 19. Quar
Oct. 20. High
Oct. 20. Disin
Oct. 22. Scho
Oct. 22. Fire
Oct. 22. Quar
Advertis
Oct. 22. Gua
Oct. 22. Scho
Oct. 22. Wir
Adv
Oct. 23. Mess
Adver